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UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

BUREAU OF LABOR STATISTICS

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This Issue in Brief

The output per employee in the electric light and power industry increased 260 per cent from 1902 to 1927, according to a recent study made by the Bureau of Labor Statistics. There has been little, if any, actual displacement of labor, however, except through the curtailment that took place during 1930 and 1931. In most instances the loss of employment opportunities because of the abolition of positions as a result of installation of larger units or automatic devices has been offset by the labor demand created through the tremendous expansion of the industry and the increase in activities undertaken to give reliable and uninterrupted service. Page 249.

Size of plant, degree of mechanization, wages paid, kind of ore handled, and character of labor are all factors entering into efficiency (as measured by man-hour productivity) in the blast-furnace industry. This is indicated by an analysis of data gathered in the 1929 Census of Manufactures. The plants with the largest output of pig iron produced more than four times as much per man-hour as did the plants with the smallest output. The plants having the lowest output per man-hour were those paying the lowest hourly wage, while the plants with the highest man-hour output were those paying the highest wages. In the highest-wage plants the man-hour production was more than eleven times

as great as in the lowest-wage plants. Page 260.

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The actual earnings of pilots in air transportation in October, 1931, averaged \$569.49 per month; of copilots, \$227.89 per month; and of all other employees, \$31.66 per week. Pilots' average monthly earnings ranged from \$482.45 in the South Central section to \$617.84 in the South Atlantic section. Average earnings per flight-hour ranged from \$5.565 in the South Central section to \$8.066 in the Western, being \$7.084 for all districts combined. A few companies pay pilots a monthly salary regardless of hours flown, but the majority pay a monthly salary plus a specified rate for each mile flown. The average full-time flight-hours of pilots are fixed at a maximum of 110 per month, but the hours actually flown in October, 1931, averaged only 80.4. Detailed data for pilots, copilots, and other employees connected with air transportation are given in an article on page 339 summarizing the results of the first study of this industry made by the Bureau of Labor Statistics.

Hourly earnings of workers in the dyeing and finishing of textiles in 1932 averaged 41.8 cents for males and 29 cents for females, as compared with 47.3 cents and 33.5 cents, respectively, in 1930, according to a survey by the Bureau of Labor Statistics. Average full-time weekly earnings of males were \$21.49 in 1932 and \$24.12 in 1930, and of females, \$14.85 in 1932 and \$16.92 in 1930. Full-time working hours per week of males averaged 51.4 in 1932 and 51 in 1930, and of females, 51.2 in 1932 and 50.5 in 1930. Page 349.

Cost of living in the United States was 6.9 per cent lower in June, 1932, than in December, 1931, and 9.7 per cent lower than in June,

1931, as determined by the Bureau of Labor Statistics in its semiannual survey of cost of living. The index number of cost of living for June, 1932, is 135.7, based on the cost in 1913 as 100. Page 421.

The adoption of a 6-hour-shift system by the India Tire & Rubber Co. has proved extremely satisfactory from the standpoints of improved production, decreased labor costs, and reduced absenteeism. and, in addition, has resulted in giving employment to one-third more workmen. Page 369.

A 40-hour week has been established by the Standard Oil Co. of New Jersey for all its operations in this country, in order to provide all practicable assurance of continued employment, and to effect further economies in operation. Wage earners paid by the hour will continue to be paid on the basis of time actually worked, but the pay of executives and salaried workers is reduced one-eleventh, with the exception that no salary of \$100 or less per month will be affected. The change became effective July 1. Page 367.

British Columbia is developing an extensive plan for the settlement of unemployed married men on the land. Prospective settlers will be selected by a nonpolitical board already appointed for this purpose, selection to be made on the basis of farming experience and the desire to go back to this occupation. Settlement will be made in agricultural districts convenient to markets and already having both roads and schools. It is expected that by the end of two years most

of the families will be largely self-supporting. Page 281.

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Labor Productivity and Displacement in the Electric Light and Power Industry

THE United States Bureau of Labor Statistics has recently completed a study of technological changes in the electric light and power industry, with special reference to their effects upon labor. Although quinquennial censuses of the industry are made by the Bureau of the Census, these figures are not separable as regards operating and maintenance employees and are lacking in one respect very important from the labor standpoint, namely, data as to man-hours worked. The study by the Bureau of Labor Statistics covered 10 representative electric-power companies or systems, employing an average of 18,087 workers in 1930.

The electric light and power industry, according to a report of the National Electric Light Association, ranks thirteenth among the industries in number of employees and in the value of its product.

while from the standpoint of money invested it ranks fifth.

So great has been the increase in output per employee in this industry that, at a conservative estimate, it would require between 75 and 100 per cent more operating and maintenance employees to produce, transmit, and distribute the present output, using the same sizes and types of equipment and with the same output per em-

ployee found 15 or 20 years ago.

There has, however, been little, if any, actual displacement of labor except, as in most other industries, through the curtailment that took place as a result of the current depression. In most instances in which positions have been abolished because of the installation of larger units or automatic devices, the employees affected, generally speaking, have been absorbed through the tremendous expansion of the industry in recent years. Another labor-absorbing factor has been the increased number of activities undertaken to give reliable and uninterrupted service.

The major changes and improvements in this industry that have served to increase the output per employee may be briefly summarized

as follows:

1. Use of mechanical stokers and pulverized-fuel burners.

2. Improvement of the load factor.1

3. Use of larger and more compact generating and boiler units.

4. Consolidation and interconnection of systems.

5. Increased voltages (pressures) and long-distance transmissions.

¹ The "load factor" is the ratio of the peak demand to the power generated.

6. Unattended, remote-control substations.

Unattended, remote-control hydroelectric generating stations.
 Improvement in the construction and wearing qualities of electrical equipment, with corresponding reduction in the maintenance re-

quired.

Development and Changes in the Industry

THE first public electric-power plant in the world was established by Thomas Edison in 1882. It was located on Pearl Street in New York City and was used principally for supplying illumination to fewer than a hundred customers within a radius of 10 or 12 city blocks.

In the year 1886 George Westinghouse and William Stanley produced a practical commercial transformer and opened the way for alternating-current distribution and its transmission to distant points.

Previous to the introduction of alternating current, about 1890, all electric current was generated, transmitted, and distributed as direct current.² Principally because of the great losses involved in transmitting direct current for any distance, the use of the power was limited to restricted areas near the power house where it was generated, and as a result the industry made no real progress until after introduc-

tion of alternating current.3

The change from direct to alternating current undoubtedly paved the way for all subsequent progress in the industry as regards the transmission and distribution, making possible as it did the transmission of electric energy over considerable distances and eliminating the necessity of locating power plants near the load areas. Waterpower sites remote from centers of population could be utilized; for steam plants sites could be selected that were advantageous as to fuel supply and abundance of cooling water, the latter being particularly

important for steam-turbine operation.

The most obvious characteristic of the electric light and power industry during the past 25 years has been its uninterrupted growth. This has been accompanied by a continuous increase in mechanization and in the size both of the individual plant and of the generating units, involving a decided increase in the number of establishments. Comparing the year 1927 (the latest year for which census figures are available) with 1902, the number of kilowatt-hours generated was almost thirty times as large; the kilowatt capacity of generators twenty-one times as large; the horsepower of prime movers nineteen times as great; the value of plant and equipment eighteen times as great; and the number of persons employed eight times as large.

During the same period the number of kilowatts of capacity per employee increased from 40 to 103, and the yearly output per employee from 82,700 to 297,500 kilowatt-hours. Eight times as many employees in 1927 as in 1902 generated thirty times as much energy. The explanation is to be found chiefly in the progress of mechaniza-

tion.

There has been a gradual shift toward a larger ratio of salaried employees to wage earners in both commercial and municipal power plants as technical progress has reduced the amount of labor to be performed.

I. e., current that flows always in the same direction.
 I. e., current that periodically and rapidly reverses the direction of its flow.

Table 1 shows the development in the industry, by 5-year periods, from 1902 to 1927.

TABLE 1.—DEVELOPMENT OF ELECTRIC-POWER INDUSTRY IN THE UNITED STATES, BY 5-YEAR PERIODS, 1902 TO 1927

descent of all bounded	Num	ber of empl	loyees	ope gmiliz	Output per employee		
Census year	Wage earners	Salaried employ- ees	Total	Total generated output (in kilowatthours)	Kilowatt- hours	Index num- bers (1902= 100)	
1902	23, 330 34, 642 53, 242 70, 135 95, 650 149, 605	6, 996 12, 990 26, 093 35, 406 55, 112 101, 415	30, 326 47, 632 79, 335 105, 541 150, 762 251, 020	2, 507, 051, 115 5, 862, 276, 737 11, 569, 109, 885 25, 438, 303, 272 40, 291, 536, 435 72, 686, 378, 010	82, 670 123, 074 145, 826 241, 028 267, 253 297, 532	100 149 176 292 323 360	

The most outstanding changes in power production during this period have been the rapidly increasing concentration of power; the rise in steam pressures and steam temperatures used; the experimental introduction of a second working fluid (mercury) in an independent cycle supplementing that of steam; and the increased rating of boilers, turbines, water wheels, generators, transformers, and the power

plants themselves.

As in other industries there has been the increasing mechanization of the power plant. Where formerly the firing of the boilers was a matter of human muscle, and the feeding of coal into the furnaces by the shovelful had called for exhausting labor on the part of a host of firemen, the modern power plant uses mechanical stokers or pulverized fuel blown into the furnace by an air blast. The rate of feed, the adjustment of the draft, and other operations are performed automatically. The work of the employee has changed from that of laborer to that of supervisor of the apparatus that performs the

physical work.

The year 1912 marked a rapid change from the reciprocating engine to the steam turbine as a prime mover for power plants. Then, with the change in steam turbines from the vertical-shaft to horizontal-shaft type, came a corresponding change to boilers of greater size, higher steam pressures, and higher temperatures. Other features gradually introduced into steam-plant practice include the cooling of the furnace walls by means of air or water, the preheating of the air supply to the furnace, the use of high-refractory brick around the fuel and clinker lines of the furnace side walls, the reheating of the steam at some point in its passage through the turbine, the bleeding of steam from the turbine at a certain stage in its expansion and the utilization of its heat in another stage of the process, and the burning of pulverized coal.

Other changes in the industry have been the increasing (though still proportionately small) use of the internal-combustion engine, introduction of remote control of substations, improved cooling systems for the steam turbo-generators, the increase in the size of transformers, the development of large mercury-arc rectifiers for converting alternating to direct current, and, very recently, important advances in transmission by means of underground cable.

Number of Employees in Relation to Output

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The number of employees required in a power plant does not increase proportionately with the size of the plant. No more operating employees are required for a 50,000-kilowatt generator than for a 5,000 or 10,000 kilowatt generator. The same is true of boiler and other auxiliary equipment and to some degree of all branches of the industry. As the trend has been toward larger power plants, displacing many small ones, it will be readily seen that, taking the country as a whole, this has undoubtedly resulted in a very substantial loss of employment opportunities. This loss, however, has been more than offset by the remarkable expansion of the industry in recent years, and it is questionable whether this growth would have been possible without the larger units. It has been characteristic of this industry that a reduction of rates usually results in increased output, and it is claimed that reductions in rates have been made possible only by reason of economies in operation, such as the installation of larger and more efficient generating and boiler units, high-voltage transmission lines, interconnection, etc.

The relation between output and number of employees in this industry differs radically from that of most of the manufacturing industries, as the electric light and power industry is one of the few industries manufacturing, transporting, and distributing its products to the ultimate consumer.

The unit of output in this industry is the kilowatt-hour (representing the use of 1,000 watts for 1 hour or the use of 1 watt for 1,000 hours). The output is not capable of separation as to stages of manufacture and consequently must be considered as the joint product of all of the employees engaged in its generation, transmission, and distribution.

The duties of most of the operating and maintenance employees in this industry are of a supervisory character. Because of the nature of the product, the employees are not in a position to control their output; that is to say, the output in kilowatt-hours per employee for any given period is dependent to a large extent on the demands of the consumers. Thus, while the number of kilowatt-hours per employee or per man-hour in this industry does indicate the trend in productivity over a period of years, it is by no means a scientifically accurate measurement of the efficiency of the employees, because of the variations in the load factor and the fluctuations in the demand for power.

In many of the companies visited during the bureau's study, it was found that the output could have been materially increased without increasing the number of operating employees. On the other hand, a decrease in kilowatt-hour output does not necessarily result in the displacement of labor in so far as the regular operating and maintenance employees are concerned. It will thus be seen that increases or decreases in plant production affect the employee-output figure without necessarily changing the number of employees.

Table 2, which follows, shows the additional number of employees that would be required in 10 representative systems (companies) had the output per employee remained the same as in the earliest year for which data were obtained. The number of years considered for each

individual system varies according to the available records, but in each case the calculations are based on the output per employee for the earliest year obtainable. This tabulation includes the average number of all operating and maintenance employees in the generation, transmission, and distribution departments, but does not include any employees engaged in the administrative, accounting, clerical, or newconstruction departments. New construction was excluded because of its fluctuating amount from year to year.

2.—NUMBER AND PER CENT OF EMPLOYEES THAT WOULD BE REQUIRED IN 10 REPRESENTATIVE SYSTEMS, AT RATE OF OUTPUT FOR BASIC YEAR

	Number of years for which	Average number of em-	Number of em- ployees required	Loss of e ment opp tie	ortuni-
System	informa- tion was obtained	ployees for latest year 1	on basis of output for ear- liest year	Esti- mated number	Per cent
System No. 1 System No. 2	11 11 20	1, 824	2, 509 2, 516	685 472	38 23 50
System No. 3 System No. 4	5	2, 044 3, 587 605	5, 388	1,801	50
System No. 5 System No. 6	18 16	1, 072 541	4, 526 1, 298	3, 454 757	322 140
System No. 7	8 14	972 2, 073 3, 905	1, 258 4, 294	286 2, 221	29 107
System No. 9	11 7	3, 905 468	8, 210 679	4, 305 211	111 45

Table 2 shows that the loss of employment opportunities because of the increased output per employee varies from system to system and is dependent on several factors, such as the number of years for which comparison is made, the extent of the territory served, the policy of the individual system, and the character of the power and lighting load.

Using system No. 1 of this table as an illustration, it will be noted that, in the most recent year for which data were obtained, an average of 1.824 workers was employed. But on the basis of output in the earliest year of the 11-year period covered by the figures, 2,509 employees would have been required, or 685 (38 per cent) additional.

Table 3 shows output per man-hour for nine of the systems studied. It should be emphasized that the output per man-hour for any one system is not comparable with that of any other system, because of differences as to policy, territory served, etc., among the various systems.

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¹ Latest year was 1931 in 8 systems, and 1930 in 2 systems.

² There was no loss of employment opportunities in this case; on the contrary, due to drop in industrial load, there would be a gain of 84 positions if figured on the basis of output for the earliest year.

TABLE 3.—OUTPUT PER MAN-HOUR, IN KILOWATT-HOURS, AND PER CENT OF INCREASE DURING PERIOD STUDIED, IN EACH OF NINE SYSTEMS

	Output per man-hour (in kilowatt-hours)										
Year	System No. 1	System No. 2	System No. 3	System No. 4	System No. 5	System No. 6	System No. 7	System No. 8	System No. 10		
1912			332	0.0.110.0				ET SALL			
1913			316								
1914			345	0000000							
1915			418		14101100						
1916		313 300	406		000000000	109					
1917			429			133					
918			480			203					
1919			476			262					
1920	110	357	501		128	171					
1921	123	339	517		111	133					
922	127	389	607		175	143					
923	125	398	587		186	166					
1924	129	351	539		200	182	218				
925	126	384	551		240	185	194		57		
1926	128	417	598		244	184	229		62		
1927	140	437	620	180	249	195	254	421	70		
1928	145	475	649	161	294	227	275	441	72		
1929	153	481	601	166	320	280	307	506	72		
1930	170	441	621	158	342	317	323	512	78		
1931			624	144	329	304	281	607	82		
Per cent of increase in latest as compared with earliest											
year	55	23	88	1 20	79	179	29	44	1		

¹ Decrease, due to the retention of certain employees for use in a new generating station under construction.

Some of the principal reasons for the great increase in the productivity of the employees in this industry may be summarized as follows:

1. The increased size and efficiency and the improved construction of the generating units, boilers, and auxiliary equipment used, resulting in a proportionately smaller number of employees per unit of equipment.

2. The progress made in the transmission of electric current over long distances and at high voltages, resulting in the linking of many small isolated plants with the large systems and in the connection of hydro and steam generating facilities within the same system. As in other industries, the principle of mass production has been highly developed, with a gradual elimination of the small isolated generating plants and the carrying of the base power loads by the larger and more efficient central plants. (The 1927 census figures showed a decrease in the number of establishments in this industry from 6,542 in 1917 to 4,335 in 1927.)

The improvement, during recent years, in the load factor (i. e., the ratio of the peak demand to the power generated). As the load factor indicates the extent to which the generating equipment is being used, its improvement has resulted in the securing of more hours of use from the generators and has been reflected in increased output per employee.

It will be observed from Table 4 that in all but one of the systems the increase in the total yearly output and also in the generating capacity was relatively higher than the increase in the number of employees.

TABLE 4.—PER CENT OF INCREASE IN AVERAGE NUMBER OF EMPLOYEES, ANNUAL OUTPUT AND KILOWATT CAPACITY IN EACH OF 10 REPRESENTATIVE SYSTEMS

	Number of years for	Per cent of increase (from earliest to latest year studied) in—					
System	which infor- mation was obtained	Average number of employees	Total yearly output	Kilowatt capacity of generators			
System No. 1	11	59 92	119 137	139 176			
System No. 3	20	272	459	478			
System No. 4	5 18	10	16	12			
System No. 5	18	77	649	416			
System No. 6	16	209	642	755			
System No. 7	8	32	71	2 26			
System No. 8 System No. 9	11	97 35	307 184	362			
System No. 10	11	(3) 33	44	201			

¹ Decrease, due partially to the removal of one generating unit and a drop in the industrial load without a proportionate drop in employees. The employees in this case were retained because of the building of an additional generating station.

additional generating station.

² This system purchases the bulk of its electric output, and consequently, has not shown a proportionate growth in its generating capacity.

No change.

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Effect of Automatic Equipment on Employment Opportunities

Generation of Electric Power from Steam

IN THE United States about 60 per cent of the total electric power is generated from steam, while most of the remaining 40 per cent is derived from water power.

In the generation of electric power from fuel, either coal, natural

gas, or oil is used. Coal is by far the major fuel used.

The heat energy of the fuel produces steam which in turn is used to drive the steam turbine. The steam turbine consists of a large number of vanes mounted on a shaft called a rotor, and as the energy of the steam reaches the vanes it causes them and the rotor to revolve at a very high speed. As the steam goes through the turbine, it passes down into the condenser where cool water changes the steam back to water which is then returned to the boiler and is again converted into steam.

The generator is attached to the rotor, and the rotating power of the latter drives the generator, producing the electric current. As the electric energy leaves the generators it is measured, concentrated on copper rods called bus bars, or buses, and is then switched to the proper circuits. The circuits either distribute the energy directly to nearby points or carry the current to transformers which increase the

voltage (pressure) for transmission to distant points.

During 1928, of the coal burned for the production of electric power, 97.7 per cent was fired mechanically, while 2.3 per cent was burned under the hand-fired boilers still used by a few small plants. The types of mechanical stokers used were (1) the underfeed stokers in which the coal is inserted below the surface of the fuel bed, the volatile constituents of the coal being distilled off and passing up through the incandescent fire where they are ignited and burned; (2) the overfeed stoker, with inclined grate and natural draft, used to a limited extent for burning bituminous coal under small boilers; (3) the chain-grate stoker, an endless conveyor traveling through the furnace from front to rear; and (4) the pulverized-coal burner, using

finely pulverized coal blown into the furnace and burned in the form

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Most mechanical stokers are controlled by regulators which are set to maintain a predetermined steam pressure and are automatically affected by changes in this pressure. A drop in the steam pressure causes an increase in the speed of the fan and the stoker, thus allowing more coal and air to enter, and in turn halting the fall of the pressure. Increase of the pressure causes a decrease in the amount of coal allowed to enter.

The use of mechanical stokers is by no means a recent development. Such stokers were in use prior to the year 1900 and have formed part of the original equipment of practically all the important companies

that have begun their operations since that time.

It is not possible to determine with any degree of accuracy the probable displacement of firemen by reason of the use of mechanical stokers in the electric light and power industry. Also, the great variation in the sizes and types of stokers used makes it almost impossible to arrive at any reliable estimate of the number of employees now required in the operation of mechanical stoking devices.

Some idea of the reduction in employment opportunities due to mechanical stokers may be gained, however, from an estimate given by one electric-power company. This company has 24 underfeed stokers in operation, requiring the services of 14 employees working in 3 shifts of 8 hours each. As this company has used only the mechanical stokers since beginning operations, an accurate measure of the increased labor efficiency of the mechanical stoker as compared with the hand-fired boiler is impossible. The company estimates, however, that approximately 200 firemen, in three 8-hour shifts, would be required to feed by hand the 24 boilers now being fed by mechanical stokers and attended by 14 employees.

According to the United States Geological Survey, 50,654,000 tons of coal were consumed in the production of electricity in the United States during the year 1930. Had this entire amount been hand fired instead of being mechanically fired, as 98 per cent of it actually was, it may be conservatively estimated that the services of approximately 35,000 firemen working 8-hour shifts would be required. In arriving at this estimate, it was assumed that the coal would be located conveniently near the boiler and that the duties of the firemen would not include the wheeling or other transportation of the

coal either within or without the plant.

Generation of Electric Power from Water

In the generation of hydroelectric power, the water may be obtained either directly from the stream or from storage dams. A diversion dam is usually built at the narrowest point of the stream and an intake tower (or "headworks") is constructed immediately above the dam and having on the open side racks or bars to permit the entrance of the water and to exclude débris. This intake tower is equipped with iron gates which can be opened or closed as desired.

From the intake tower the water which is not under pressure flows into a pipe or tunnel to the "forebay," a small concrete regulatory reservoir so constructed as to secure the maximum head or fall with a minimum of pressure pipe, or "penstock." The penstock carries

the water under pressure from the forebay to the power house below. The number or size of the penstocks used is dependent on the layout of the particular plant. While a separate pressure pipe may be used for the operation of each of the generating units, often there are only one or two large pipes between the forebay and a point near the power house; from this point the penstocks are divided by means of a Y connection, thus creating a direct flow to each generating unit.

The pressure or volume of water from the penstocks as it enters the power house is utilized to operate either a water (impulse) wheel

or a hydraulic turbine which in turn operates the generator.

The water, after being utilized in either the impulse wheel or the hydraulic turbine, flows by gravity to the tailrace or "afterbay" below. This tailrace often serves as a forebay for another power house farther down the stream or river and thus the same water

serves over and over again for the generation of power.

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Table 5 presents a comparison of a representative hydroelectric plant before and after the installation of certain semiautomatic devices, the year 1928 being taken as representative of conditions before the change and 1931 as representative of those after the change. The generator capacity and static head was the same in both years—one 225-kilowatt generator (at 90 per cent P. F.), with a static head of 627 feet and four kilowatt generators (at 90 per cent P. F.) with a static head of 1,905 feet. The plant was on an 8-hour day in both years.

TABLE 5.—EFFECTS OF INTRODUCTION OF SEMIAUTOMATIC DEVICES IN A HYDRO-ELECTRIC COMPANY

Item .	Before change	After change
Number of employees:	a ilyay nawa	
Station chief	1	1
Operators	3	2
Truck driver	1	
Headworks tender]
Total	7	4
Output (in kilowatt hours):	11 500 271	11 272 701
Per employee	11, 588, 371 1, 655, 482	11, 373, 705 2, 843, 426
Per man-hour	71, 204	125, 33

It will be noted from the foregoing comparison that the following changes occurred as a result of the installation of semiautomatic devices in this plant: (1) The number of employees decreased 40 per cent; (2) while the total output for the year decreased about 2 per cent, the output per employee increased over 70 per cent; and (3)

output per man-hour increased more than 75 per cent.

The change of this plant to a semiautomatic basis involved the regulation of the water from the forebay to make possible the complete utilization of all available water. When sufficient water is available not only for the full-load operation of four units but also for the partial operation of the fifth unit, the four units are set to generate the full load and the automatic features are placed in operation on the fifth unit, so that increases or decreases in the water are reflected in increased or decreased generation by the fifth unit. In

order to detect trouble, thermostats have been installed on the bearings and field coils of the generator, so that a rise in the temperature automatically causes an alarm to ring and cuts off the generator. The restarting of the generator is not automatic.

Transmission and Distribution of Current

The number or size of the substations through which the power is transmitted varies considerably from system to system and is dependent on many factors, such as the extent of the territory served, the load, etc. The substations are usually located in the center of the demand areas. They vary considerably as regards number of employees required, and some are entirely automatic in their functioning.

There is a decided tendency on the part of many large systems to put all substations on a semiautomatic or full automatic basis wherever possible, and of recent years there has been a rapid growth in the number of unattended, automatic substations, due principally to the installation of relay and protective equipment. Control relays are used to start the machines as load conditions require, to connect the unit to the line, and to shut it down when no longer needed. Protective relays furnish the protection desired against abnormal conditions such as short circuits, etc.

In one large system, in 1931, of a total of 325 substations in operation, 233 (72 per cent) were entirely automatic while the other 92 (28 per cent) required some attendance.

Table 6 shows the spread of the automatic type of substation since 1920 in five of the systems studied.

TABLE 6.—NUMBER OF ATTENDED AND UNATTENDED SUBSTATIONS IN FIVE REPRESENTATIVE SYSTEMS IN THE UNITED STATES, 1920 TO 1930

Vane			Number of sub- stations			
Year	Year	Attended	Un- attended			
1920			46			
1921		136	60			
1922		141	61 71			
1924		155	113			
1925		177	116			
1926		180	133			
1927		184	158			
1928		192	162			
1929		192	179			
1930			193			
Per cent o	f increase	41	320			

Table 7, which follows, shows that the number of kilowatts of substation equipment per employee, and therefore the amount of attention necessary for this substation equipment, has shown a substantial increase in each of the systems studied.

It will be further observed that the greater the number of years for which information was available within any one system the greater was the per cent of increase shown.

TABLE 7.—NUMBER AND PER CENT OF INCREASE IN KILOWATTS OF SUBSTATION EQUIPMENT PER SUBSTATION EMPLOYEE FOR THE NUMBER OF YEARS STUDIED IN EACH OF EIGHT REPRESENTATIVE SYSTEMS

	Kilowatts of substation equipment per substation employe							
Year	System No. 2	System No. 3	System No. 4	System No. 5	System No. 6	System No. 7	System No. 8	System No. 10
1912		595						
1913		597						
914		683		1, 241				
915		801		1, 297				
916	1, 224	1,030		1, 333				
917	1, 614	1,091		1, 235				
918	1, 766	1,079		1,604				
919	1,743	1, 106		1, 948				
920	1, 823	1, 182		1, 963				
921		1, 336		2, 039				
922		1, 486		2, 330	2, 515			
923		1, 638		2, 465	2, 340			
924	2,700	1,750		3, 269	2, 221			
925		1,798		2, 488	3, 254	2, 288		3, 30
926	2, 434	1, 986		2, 738	3, 439	2, 447		3, 590
927		2, 128	5, 652	2, 556	3, 136	2, 554		3, 93
928		2, 593	5, 746	3, 089	3, 171	2, 686		3, 60
929	2, 828	2, 190	6, 196	3, 326	3, 221	3, 015	621, 947	3, 86
930	3, 037	2, 343	7, 348	3, 462	2, 903	3, 213	743, 203	4, 42
931		2, 479	6, 540	3, 428	3, 443	3, 402	762, 716	5, 14
Per cent of increase from earliest to	1	THEFT	TURK	-118486	Tal In	CITTLE AND A	CIT BR	Challan.
latest year	148	317	16	176	37	33	23	56

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Man-Hour Productivity in the Blast-Furnace Industry in 1929

N CONNECTION with the Census of Manufactures of 1929 the . Bureau of the Census collected data regarding man-hour rates of production for certain industries, including blast furnaces. With the permission of the Bureau of the Census a summary of the information thus obtained regarding blast furnaces is presented in this article. The method of tabulation follows in general the one set forth in the Labor Review of March, 1929 (p. 52).

The data collected covered operations in 1929, and were obtained by incorporating an additional question in the usual census question-The extra naire which was filled in by the manufacturers themselves. inquiry requested the actual number of man-hours worked during the year by the wage earners, including piece workers as well as time workers but not including salaried officers and salaried employees.

The plants covered in the present study produced 95.8 per cent of the total blast-furnace output in the United States in 1929.

Analysis of the data concerning these plants indicates that efficiency (as measured by man-hour productivity) depends on a number of factors, including size of plant, degree of mechanization, wages paid, etc.; kind of ore handled and character of labor also exert some influence.

The plants with the largest output of pig iron produced more than four times as much per man-hour as did the plants with the smallest output; the wage cost per man-hour was slightly lower in the small plants than in the large plants, but the rate per ton was much higher.

Efficiency, as measured by output per man-hour, is not, however, entirely a matter of the size of the plant. Analysis shows that the plants having the lowest output per man-hour were those paying the lowest hourly wage, while the plants with the highest man-hour output were those paying the highest wages. In the highest-wage plants man-hour production was more than eleven times as great as in the lowest-wage plants. The four highest-wage plants were of only medium size, however, as regards number of employees.

Study of the classification of the plants on the basis of horsepower shows a very close connection between efficiency and the horsepower. The plants with the smallest horsepower had the smallest average output per plant and the smallest output per man-hour, whereas the plants with the greatest horsepower had the largest output per plant and per man-hour and the lowest wage cost per ton. The data would seem to indicate that from the standpoint of efficiency the provision of 100 to 125 horsepower per wage earner gave the best results.

Scope of Study

Usable reports as to man-hours worked were secured from 86, or 81.9 per cent, of the 105 blast-furnace establishments operating in the United States in 1929.2 These produced 40,710,666 tons, or 95.8

¹ By the term "establishment" is meant a blast-furnace plant, or the blast-furnace department of a large plant carrying on more than one activity.

The other 19 plants were included, however, in the general census statistics, the unsatisfactory answers having pertained only to the man-hour inquiry.

per cent, of the 42,486,758 tons produced during the year in the

United States.

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Table 1 shows (for each of seven States for which figures can be published without permitting identification of individual establishments) the total production in the State and the amount and per cent of the total production reported by the establishments included in the man-hour tabulations. The smallest coverage for any one of the four most important States of the industry (Pennsylvania, Ohio, Illinois, and Indiana), which together account for over three-fourths of the total production, is 95.6 per cent, for Ohio. For three of the States, Illinois, Indiana, and Alabama, the total production (that is, every blast-furnace establishment in the State) was covered by the man-hour tabulations.

Table 1.—TOTAL PRODUCTION OF PIG IRON, AND PRODUCTION COVERED BY MAN-HOUR TABULATIONS, BY STATES, 1929

	Rank (based on total pro- duced)		Production covered by man-hour tabulations				
State		Total pro- duction (long tons)	Amount (long tons)	Per cent of total produc- tion in State	Per cent of total produc- tion in States covered		
Pennsylvania Ohio Ohio Illinois Indiana New York Alabama Michigan Other States 1	1 2 3 4 5 6 8 (1)	14, 535, 823 9, 797, 488 4, 357, 905 4, 277, 759 2, 707, 315 2, 705, 923 794, 526 3, 310, 019	14, 212, 578 9, 363, 555 4, 357, 905 4, 277, 759 1, 976, 455 2, 705, 923 753, 324 2 3, 063, 167	97. 8 95. 6 100. 0 100. 0 73. 0 100. 0 94. 8 92. 5	34.9 23.0 10.7 10.8 4.9 6.6 1.9 7.8		
United States		42, 486, 758	40, 710, 666	95. 8	100.0		

Maryland, rank of 7; West Virginia, Colorado, Minnesota, Kentucky, Massachusetts, Utah, Tennessee, and Virginia, ranks of 9 to 16, are combined to avoid revealing data for individual establishments.
 Does not include any establishment in Virginia.

Factors which materially affect the productivity of a plant are the types of equipment, methods of operation, quality of ore, kind of product, and method of delivery. These exert an influence upon the amount of labor necessary, and, therefore, upon the number of wage earners employed. The tabulations cover only three plants engaged in the production of charcoal iron aggregating less than 100,000 tons, the remaining tonnage having been reported as produced by coke.

The method of delivery or of casting of the iron is very important, and the establishments included in the man-hour tabulations were representative of the industry in this respect. Table 2 shows the

The total production (1,776,092 tons) omitted from the man-hour tabulations was produced in plants not representative of the industry in every respect. Three factors—geographical location, method of delivery, and size of furnaces—are of material significance in this connection. As shown in Table 1, the tonnage omitted is not uniformly distributed geographically, but in regard to method of delivery, the tonnage omitted was representative of the industry. Only 85,015 tons, or 4.8 per cent, were delivered by methods other than machine-cast or delivered molten in contrast with 4.0 per cent for the entire industry. In respect to size of furnaces and number of furnaces per plant, the plants excluded from the man-hour tabulations were somewhat smaller than normal. They probably were therefore somewhat less efficient than the average for the industry. The average capacity of the 273 furnaces reported by the entire industry was 543 tons, but that for the 23 furnaces in the 19 plants excluded from the tabulations was only 334 tons; 4 furnaces had less than 100 tons capacity, and 5 had capacities of 500 tons or more, the largest being 600 tons. Only 2 of the 19 establishments had more than one furnace each, 1 having two furnaces and 1 having four. The average number of furnaces per establishment excluded was, therefore, only 1.2 as compared with 2.6 for the entire industry.

number of establishments and the tonnage produced by each of four methods of delivery or of casting for the industry as a whole and for the establishments included in the man-hour tabulations.

TABLE 2.—PRODUCTION OF PIG IRON IN THE UNITED STATES, BY METHOD OF DELIVERY OR CASTING, 1929

		stablishmen the industry			lishments in n man-hour ons	ted	Establishments omit- ted from man-hour tabulations			
Method	Num- ber of estab- lish- ments	Long tons produced	Percent	Num- ber of estab- lish- ments	Long tons produced	Per cent	Num- ber of estab- lish- ments	Long tons produced	Percent	
Delivered molten Machine cast Sand cast and chill cast Direct castings	1 58 1 88 1 27 1 35	29, 463, 804 11, 332, 479 1, 651, 535 38, 940	69.3 26.7 3.9	1 56 1 73 1 21 1 32	29, 151, 448 9, 953, 758 1, 566, 875 38, 585	71. 6 24. 5 3. 8 . 1	14 114 15 13	312, 356 1, 378, 721 84, 660 355	17. 77. 4. (2)	
Total	105	42, 486, 758	100.0	86	40, 710, 666	100.0	19	1, 776, 092	100.	

¹ Involves some duplication, since number of establishments reported two or more methods.

2 Less than one-tenth of 1 per cent.

The method of delivery or of casting within the individual States is not appreciably different from that for the United States as a whole. In Pennsylvania, the quantity produced by all the blast furnaces in the State by methods other than delivered-molten or as machine-cast was 3.3 per cent, and in Ohio, second in rank, 0.3 per cent; for the other 14 States, with a total production of 18,153,447 tons, the quantity delivered by methods other than by these two methods was 1,177,040 tons, or 6.5 per cent.

Trend of Productivity

Productivity, by States

Table 3 shows averages of output, wages, and horsepower in the different States, arranged in the order of their importance as regards average output per establishment. The "wages" item in Table 3 is based on the aggregate amount of compensation paid during the year to all the wage earners of the establishment. This, divided by the year's output, gives the wages per ton. The "wages per manhour" is obtained by dividing the aggregate wages by the total number of man-hours. While rates of wages are not here considered it is known that these differ from plant to plant. The "horsepower" is the sum of the rated capacity of the prime movers plus that of the electric motors driven by purchased energy. The power of the electric motors run by energy generated in the establishment is omitted, since to include such motors would result in a duplication of some of the power originating with the prime movers proper.

TABLE 3.—AVERAGE WAGES AND AVERAGE HORSEPOWER PER UNIT OF OUTPUT AND PER MAN-HOUR, IN 86 BLAST-FURNACE ESTABLISHMENTS, BY STATES, 1929

	Num-	Aver-	Average	Out-	W	ages	Average	Horse	ower 1
State	ber of estab- lish- ments	num- ber of wage earn- ers	output per establish- ment (in long tons)	(tons) per man- hour	Per ton of output	Per man- hour	horse- power (rated capac- ity) 1	Per 100 tons of out- put	Per 1,000 man- hours
Indiana	3	524	1, 425, 920			\$0.561	109, 073	7.65	70. 4
Illinois	6 27	425 293	726, 318 526, 392	. 555	.969	.538	22, 696 23, 817	3. 12 4. 52	17. 3 27. 6
PennsylvaniaOhio	21	262	445, 884	.582	1, 123	.654	31, 094	6, 97	40.6
New York	5	185	395, 291	.672	.786	. 528	17, 438	4,41	29. 6
Other States 2	10	146	306, 317	.677	.790	. 535	11,631	3, 80	25. 7
Alabama	10	240	270, 592	. 351	1.071	.375	12, 248	4.53	15, 9
Michigan	4	196	188, 331	. 366	1.845	. 675	5, 161	2.74	10.0
United States	- 86	269	473, 380	. 589	. 959	. 564	24,489	5. 17	30. 5

¹ Horsepower of prime movers plus that of electric motors driven by purchased energy. ² Colorado, Kentucky, Maryland, Massachusetts, Minnesota, and Utah, ¹ establishment each; Tennessee and West Virginia, ² establishments each.

Ranking the States in the order of output per establishment, as is done in Table 3, reveals a large degree of correlation between the data shown in the several columns of the table. Indiana ranks first as regards largest output per plant, number of wage earners per plant, output per man-hour, aggregate horsepower rating, horsepower per 100 tons of output and per 1,000 man-hours; this State shows the smallest wage per ton of output. Michigan, on the other hand, ranks last as regards output per plant, horsepower rating, and the horsepower per 100 tons of output and per 1,000 man-hours; and in only one State (Alabama) is the output per man-hour less than in Michigan. Michigan also shows the highest wage per ton of output. Unusual conditions in this State, however, partly offset the very high rate per ton found there: Part of the production is charcoal pig iron, a product requiring more hand labor than is required for the average product of the industry; hourly wages are high; and the number of full-time working hours per week for the wage earners (especially for one plant) is somewhat lower than the average for the entire industry. wages per ton for the charcoal iron were considerably larger than those for the coke iron, the former being in excess of \$2.50 and the latter somewhat under the figure of \$1.845 for the four tabulated plants in this State.

The amounts in the column for wages per ton of output tend to increase in the order of listing, and in opposition to the trend shown by the figures given in the several columns on output and horsepower.

As regards the cause of the relatively greater efficiency (measured by the increased output per man-hour) of those plants in the States listed at the top of the table, as compared with those in the States listed at the bottom of the table, it is evident that high or low hourly wages are insufficient as an explanation of the degree of efficiency found.

Michigan pays the highest hourly wages (67.5 cents) shown for the States listed, and the wages per ton of output (\$1.845) are also the highest. Although it might be expected that these high wages would command the services of an efficient type of labor, the table shows that the output per man-hour in this State (0.366 ton) is the next to the lowest of all the States listed. On the other hand, the plants in Alabama pay the lowest hourly wage (37.5 cents) of all the States listed, but the rate per ton of output is quite high (\$1.071), being exceeded by only two other States (Michigan and Ohio). Only two

other States in the list have a smaller average horsepower per plant than Alabama (12,248). Apparently, the low hourly wage in Alabama

is offset by the very low productivity per man-hour.

It is to be concluded from the above not that the labor in Michigan, for instance, is inefficient, but that the efficiency of blast furnaces is controlled more by factors other than the character of the labor or the wages paid. The inference is strong that the amount of available horsepower is closely associated with efficiency of operation. The degree of mechanization of the establishments is quite important, as is also the character of the ore.

Productivity, by Size of Plant

Table 4 classifies the 86 establishments according to number of wage earners employed, output in tons of pig iron produced, output per manhour, average wages per man-hour, horsepower, and horsepower per wage earner. In each case the figures are averages per establishment.

TABLE 4.—AVERAGE WAGES AND AVERAGE HORSEPOWER PER UNIT OF OUTPUT AND PER MAN-HOUR, IN 86 BLAST-FURNACE ESTABLISHMENTS CLASSIFIED ACCORDING TO SIZE, 1929

Item		num- ber of wage	Average output	Average output (tons) per manhour	Wages		horse-	Horsepower 1	
					Per ton of output		power (rated capac- ity) 1	Per 100 tons of output	Per 1,000 man- hours
Number of wage earners employed:			-4.3315.4			1000		1	
Under 100	17	03	110, 264	0.399	\$0, 989	30. 394	3, 542	3. 21	12.
100 to 199	28	142	262, 356	. 603	. 944	. 570	12, 923	4. 93	29.
200 to 299	16	243	371, 235	. 493	1.040	. 512	15, 478	4.17	20.
300 to 399	8	373	699, 154	. 632	. 965	. 610	34, 683	4. 96	31.
400 to 499		443	796, 005	. 655	. 957	. 627	30, 832	3.87	25.
500 to 599		544	993, 105	. 573	.941	. 539	53, 033	5. 34	30.
600 and over	8	826	1, 525, 235	. 646	. 925	. 598	101, 848	6.68	43.
Tons of pig iron produced:		20074	LIDING EL	DROTT	DOGG	DATE	677000		
Under 100,000	13	111	63, 544	. 172	2.069	. 357	3, 053	4.80	8.
100,000 to 199,999	17	116	149, 220	, 388	1.328	. 515	4, 994	3.35	13.
200,000 to 299,999	11	164	258, 754	. 498	1.063	. 530	16, 527	6.39	31.
300,000 to 399,999	12	267	362, 355	. 464	1. 255	. 583	14, 833	4.09	19.
400,000 to 499,999	10	237	450, 829	. 622	. 950	. 591	21, 115	4. 68	29.
500,000 to 999,999	11	358	735, 689	. 736	. 853	. 628	33, 040	4.49	33.
1,000,000 and over	12	697	1, 462, 702	. 716	.814	. 583	87, 256	5. 97	42.
Output per man-hour: Under 0.200 ton	OF ON	11(1)		100 000	1 300	- 11363			
Under 0.200 ton	9	186	92, 814	. 145	2, 554	. 369	3, 269	3. 52	5.
0.200 to 0.399 ton	22	207	239, 113	. 341	1. 440	. 492	12, 226	5, 11	17.
0.400 to 0.599 ton	18	273	391, 525	. 504	1, 279	. 644	20, 115	5, 14	25.
0.600 to 0.799 ton	17	346	662, 666	. 665	. 872	. 580	38, 293	5. 78	38.
0.800 to 0.999 ton	13	355	909, 230	. 869	. 665	. 578	46, 800	5. 15	44.
1.000 ton and over	7	208	640, 298	1, 313	. 582	. 765	26, 601	4. 15	54.
Wages per man-hour:	C11000		ALC DESIGNATION			TAIR	7 5 5 5		
Under 30.0 cents.	5	106	37, 914	. 091	2.178	. 198	1, 273	3, 36	3.
30 to 39.9 cents	8	131	148, 408	. 309	1. 150	. 355	6, 373	4, 29	13.
40 to 49.9 cents	15	217	363, 980	. 512	.871	. 446	19, 064	5, 24	26.
50 to 59.9 cents	31	322	609, 799	.611	. 901	. 551	29, 849	4.89	29.
60 to 69.9 cents	14	301	504, 563	. 591	1. 075	. 636	26, 481	5, 25	31.
70 to 79.9 cents	9	293	587, 983	.743	. 994	. 738	38, 425	6, 54	48.
80 cents and over	4	353	653, 652	1,026	. 991	1.016	30, 215	4, 62	47.
Horsepower (rated capacity):1	100		000,000		4363 - 3.1				
Under 1,000	9	106	137, 670	. 387	. 904	. 350	434	. 32	1.
1,000 to 4,999	16	122	145, 641	. 363	1. 381	. 501	3, 007	2, 06	7.
5,000 to 9,999	10	178	214, 436	. 459	1. 231	. 565	7, 422	3, 46	15.
10,000 to 24,999	26	223	259, 125	. 382	1. 473	. 563	15, 918	6, 14	23.
25,000 to 49,999	15	393	845, 907	. 698	. 808	. 564	37, 274	4, 41	30.
50,000 to 99,999	6	628	1, 083, 147	.617	1. 038	. 641	68, 727	6, 35	39.
100,000 and over	4	736	1, 618, 071	. 759	. 791	. 600	148, 618	9, 18	69.
Horsenower 1 per wage earner:			2,020,012				,	0.20	
Under 25.0	21	173	194, 600	. 379	1. 332	. 505	2, 592	1. 33	5. 1
Horsepower ¹ per wage earner: Under 25.0	17	242	335, 490	458	1. 150	. 527	9, 722	2, 90	13.3
50 to 74.9.	12	327	515, 281	. 506	1, 102	. 557	20, 333	3, 95	20.
75 to 99.9	11	358	659, 171	623	. 934	. 582	32, 128	4. 87	30.
100 to 124.9	6	211	567, 217	911	620	. 564	22, 598	3, 98	36.
125 to 149.9	5	356	761, 573	.843	. 852	.718	50, 592	6, 64	56.
150 to 174.9	6	284	678, 282	.800	707	. 566	47, 387	6. 99	55, 9
175 and over	8	344	775, 702	.712	.837	. 596	77, 009	9. 93	70.
Tro and Over	0	311	110, 102	. /12	.00.	. 000	11,000	0.00	100

¹ Horsepower of prime movers plus that of electric motors driven by purchased energy.

Number of wage earners employed.—As shown in the first section of the table, the output per establishment ranged from 110,264 tons in the plants with fewer than 100 workers to 1,525,235 tons in those with 600 wage earners or more. In all the columns of the first section of the table (except the two on wages) the figures show a tendency to increase with the increase in size of plant, showing that efficiency of operation seems to accompany increase in number of wage earners

employed, output, and available horsepower.

Quantity of product.—The second section of the table, classifying the 86 selected establishments according to quantity of pig iron produced, shows that the smallest plants, with an average of 111 wage earners each, had a man-hour production of 0.172 ton, whereas the largest plants, with an average of 697 wage earners each, had a man-hour production of 0.716 ton; in other words, the large plants produced over four times as much for each man-hour of labor as did the small plants. The plants in the group producing from 500,000 to 999,999 tons per year turned out a still larger production (0.736 ton per manhour) than those producing 1,000,000 tons and over.

The wage cost per man-hour was slightly lower in the small plants than in the large plants, but the wages per ton of output were much higher for the small plants than for the large ones. It is probable that the small plants pay slightly smaller hourly wages than the large plants. The latter are, in general, more highly mechanized than the small ones and may therefore require a larger percentage of skilled wage earners than the small plants with little mechanization. The higher rates of these skilled workers would, in turn, bring up the average

wage cost in the plant.

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Output per man-hour.—The above conclusion is supported by the third section of the table in which the establishments are classified according to the production per man-hour. Here it is shown that the wage cost per man-hour ranged from 36.9 cents for the plants producing less than 0.2 ton per man-hour to 76.5 cents for those producing 1 ton or more per man-hour; the corresponding wage cost per ton of output decreased from \$2.554 to only 58.2 cents. This is especially significant when considered in connection with the average number of wage earners per plant and the output per man-hour. It is evident that efficiency, as measured by output per man-hour, is not entirely a matter of size of plant; the 9 least efficient plants averaged 186 wage earners each, and the 7 most efficient ones averaged only 208 wage earners each; and yet the productivity of the latter (1.313 tons per man-hour) is over nine times that of the former (0.145 ton per man-hour).

It is also shown that the least efficient class of plants, as measured by output per man-hour, pays the lowest hourly wage (36.9 cents) and the highest wage per ton of output (\$2.554), while the most efficient class pays the highest hourly wage (76.5 cents) and the lowest wage per ton of output (58.2 cents). Obviously, there is a very large

inverse correlation between these two sets of figures.

Wages per man-hour.—The fourth section of Table 4 shows that the output per man-hour of labor is much larger in those plants paying 80 cents and over per hour than in those plants paying less than 30 cents per hour. For each man-hour of labor, the plants paying the highest wage per hour produced 1.026 tons of iron, or over 11 times as much as those paying the lowest wage. The cause of this large range

in efficiency is an important economic problem. It can not be attributed to differences in geographic location, with consequent varying rates of pay and efficiency of labor, for the 5 plants paying under 30 cents per hour and producing an average of only 0.091 ton per manhour are situated in four different States. They are all antiquated plants, adjacent to ore sources, and with an average horsepower less than one-fourth as great as that of any other class. It is probable, however, that their capital investment and overhead expenses are both small, and these factors enable them to continue operation, despite their inefficiency.

The four establishments paying 80 cents or more per hour, and producing 1.026 tons per man-hour, are not the largest plants covered by this study; the wage earners employed by them averaged only 353 per plant, and their production only 653,652 tons each. The eight largest plants studied (as shown by the first section of the table) had an average of 826 wage earners each and produced 1,525,235 tons of output each; their average output per man-hour was only 0.646 ton. The plants with the largest actual production (as shown by the second section of the table) had an output per man-hour of only 0.716 ton. This shows again that plants of only medium or small size can be as

efficient as some very large ones.

To the question of whether efficiency increased as rapidly as did the hourly wage, the answer is in the affirmative. For the class paying under 30 cents per hour the average hourly wage was 19.8 cents, and for those plants paying over 80 cents per hour the average hourly wage was \$1.016—five and one-tenth times as much; the output perman-hour in the latter class, however, was more than eleven times that of the former. For these 9 plants (5 in the lowest class and 4 in the highest), therefore, the increase in efficiency was over twice as rapid as the increase in average hourly wage. This rate is not maintained by the other classes. Consider the second and sixth groups of plants instead of the first and seventh. For the second group, with 8 plants employing an average of 131 wage earners each, the average hourly wage was 35.5 cents and the production was 0.309 ton per man-hour, whereas for the sixth class, with 9 plants employing 293 wage earners each, the average hourly wage was 73.8 cents and the production was 0.743 ton per man-The average hourly wage of the sixth group was, therefore, two and one-tenth times that of the second group, and the production two and four-tenths times. The increase in efficiency was therefore only slightly larger than the increase in the average hourly wage.

Horsepower.—The fifth and sixth sections of Table 4 classify the establishments according to aggregate horsepower rating and horsepower per wage earner employed. The data on aggregate horsepower are very similar to those based on number of wage earners employed, i. e., the plants with smallest average horsepower showed the smallest average output (137,670 tons) and the smallest output per man-hour (0.387 ton), whereas the plants with largest horsepower showed the largest output (1,618,071 tons), the largest output per man-hour (0.759 ton), and the lowest average wage cost per ton of output

(79.1 cents).

The sixth section of Table 4, based upon horsepower per wage earner, shows (1) that the plants in the class having the largest horsepower per wage earner (175 and over) are not the largest plants in the industry as measured by number of employees; and (2) that from the

standpoint of efficiency, 100 to 125 horsepower per wage earner is perhaps the optimum amount. The latter is indicated by the fact that the output per man-hour is very small (0.379 ton) for the plants with least horsepower per wage earner (under 25), but increases rapidly, with the increase in horsepower, to a maximum of 0.911 ton, in the class having 100 to 124.9 horsepower per wage earner; it shows a distinct downward trend beyond this point, the plants in the group with the largest horsepower per employee having man-hour output of only 0.712 ton, or only 78 per cent of the maximum.

The wages per ton of output show the same trend but not so distinctly. Starting with \$1.332 for the smallest class of plants (with less than 25 horsepower per wage earner), the wage per ton of output decreases rapidly as the horsepower increases, reaching the minimum of 62 cents, in the class having 100 to 124.9 horsepower per wage earner (i. e., the same class that showed the maximum output per man-hour). From this point onward there seems to be an upward trend in the wages per ton of output, though this is somewhat masked

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EMPLOYMENT CONDITIONS AND UNEM. PLOYMENT RELIEF

Report of Senate Committee on Unemployment Insurance

RESOLUTION to investigate the subject of unemploymentinsurance systems in the United States and foreign countries was adopted by the United States Senate, February 28, 1931. resolution provided for a general study of insurance systems in private use in the United States and those in use by foreign governments, with a view to determining the manner in which such systems were instituted and are now being operated; the cost involved and the results achieved; the relief, if any, afforded by each such system during the economic depression of 1930; the condition of each system on July 1, 1931, with particular reference to the effects upon it of the economic depression of 1930; and the relative State, Federal, or private responsibility in connection with any such system. The members of the committee were: The Hon. Felix Hebert (chairman), Hon. Otis F. Glenn, and Hon. Robert F. Wagner. Numerous hearings were held by the committee, at which witnesses representing the various trends of thought on the subject appeared, and in addition the Bureau of Labor Statistics made for the committee a study of the results of the operations of the various systems in this country and in foreign countries.

The following excerpts from the committee's report sum up the results of the study by the committee and the conclusions reached by it.

"The committee has observed," it is stated, "that in the consideration of the problems of unemployment relief there are two schools of thought; one, that their solution should be left to the employers of labor, and the other, that they are to be solved by compulsion through the agency of Government, either National or State; one, that we should adhere to the fundamental ideals based upon the willing cooperation of intelligent men; the other, that we should adopt a system of compulsion by legislative enactment.

"If we were to summarize the contrasting views of the two schools of thought upon the subject of unemployment insurance and the stabilization of industry, we should say that the views of those who stress

the social side of the problem might be expressed as follows:

"1. Most of the unemployment is due to social, not industrial, causes and the industrialist should not be called upon to assume the risks. Society should insure the worker against it, and, therefore, funds for the relief of unemployment should be contributed not by employees but by the State and the Federal Government.

"2. The indirect effects of social-insurance service on industrial efficiency and mobility are more important than the direct burden

which it imposes.

"3. Inasmuch as the causes of unemployment are national in character, it should be relieved by national legislation.

On the other hand, what might be called the employer group has

reached the following conclusions:

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"1. American industry should be given an opportunity to work out its own unemployment problems unhampered by Government intervention.

"2. After a study of so-called unemployment-insurance systems in operation in foreign countries, they conclude that the use of the term 'insurance' is a misnomer, since the risk of unemployment can not be measured or predicted on the basis of actuarial data.

"3. Some plan might be successfully operated if kept within certain specified limits as to coverage, but to keep it so is not possible, as

shown by the experience of other countries.

"4. Any compulsory plan will be subjected to constant and irresistible pressure to increase the benefits, extend the limits of coverage, relax the safeguards, and generally expand the system to a general relief scheme supported by public funds and paid for by taxation.

"The view that employers must be held responsible to a considerable degree for the regularization of employment in their plants has become more current. Better knowledge of the problems of scientific management has impressed business executives with the cost involved in idle plants and labor force, and together with more humane considerations, has stimulated them to conscious effort for continuity

of production and employment.

"Surveys of unemployment relations in America have shown the sporadic character of the development. In times of depression and consequent unemployment many schemes for the relief of the unemployed come to life. In times of activity even those who have advocated legislation and the creation of various agencies to assist those in need appear to lose interest and the discussion of the problem ceases.

"The experience of other countries with unemployment insurance proves conclusively that it is not a solution of unemployment in all Indeed, the proposition has been advanced by some students of the subject that the risk of unemployment is not a suitable one for insurance. Unemployment insurance, like other forms of coverage, in the limited field where it can apply will require the accumulation of reserves. That is a basic condition of insurance. Inasmuch as unemployment is not predictable, it follows that there will be not a little difficulty in finding a basis from which to proceed to the accumulation of the necessary reserves. The studies of the actuaries have not brought them to any final conclusions. studies have demonstrated that unemployment insurance as insurance will not relieve those conditions which its advocates claim, and in no event will it prove a major factor in the solution of the general That the knowledge of the subject now available is inadequate upon which to base a sound and practical scheme is conclusive, the experience of the Governments of England and Germany fully demonstrate.

"There is no difference of opinion among the members of your committee or, we believe, among the citizens of this country generally, that distress and suffering and want caused by unemployment in a depression such as the one through which we are now passing, or as the result of any depression, must be relieved; whatever form that relief may take, whether through unemployment reserves or through stabilization of industry or some system of savings so that the employee, when out of a job will nevertheless have a source of income to support himself and his dependents, at least for a time, we must provide some measure of relief if we are to maintain that standard of living upon which we pride ourselves in the United States. There is general agreement among us as to the ends to be attained, though there may be a difference as to the means whereby to attain them.

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"It is generally conceded now that any system of Federal unemployment insurance would be impractical if not undesirable. Your committee have reached that conclusion. We have observed the operation of such systems in other countries, particularly in those countries where industrial conditions are not unlike those in the United States. But we see problems to be solved if we shall establish such a system under Federal control here which have not arisen elsewhere. * * *

"Again, there is the difficulty of reaching a determination as to the extent of coverage to be provided; that is to say, whether the system shall be limited to certain classes of industries, or whether it shall include all workers in every line of activity. The difficulty here is manifest when we realize that one-third of all those who are gainfully employed in the United States are engaged in agriculture. To overlook that large body of our citizens in any scheme of unemployment relief would mean the imposition of taxes upon them without any resulting benefits, and the preferment of citizens engaged in other work. That the application of such a scheme to industry, while leaving out agriculture would be inequitable, needs no argument.

"A further objection to the maintenance of a Federal system of unemployment reserves is the difficulty of fixing rates of contributions and unemployment benefits to the varying conditions in various parts of the country. We can readily visualize a situation where, for instance, the rate of wages and the working conditions in one industry in one locality are far different than in a like industry in other parts of the country. Again, the living conditions in the large industrial centers are not the same as they are in sparsely settled communities, and these differences must, of necessity, be taken into account. A further objection comes to our minds when we realize the enormity of the problem to be solved. It will readily be seen that the imposition of such a function upon the Federal Government will bring into being a bureaucracy extending its activities all over this country such as we have never known. No one has yet hazarded a guess as to the extent to which we must go both in the way of supervision and expense if the Federal Government shall launch into such an experiment.

"In the consideration of the possibility of governmental action, particularly Federal legislation to relieve unemployment, we find there is perhaps a constitutional objection.

"The powers of Congress are limited to particular fields, and the police power to deal with such a subject rests with the States, except

in the Territories and in the District of Columbia, where the Federal Government exercises exclusive sovereignty.

"Congress has no power to regulate the relations of employers and employees except where such power is conferred by the Constitution.

"Having reached the conclusion that some form of relief of unemployment, and the solution of the many problems attendant upon it, is desirable if not imperative, and having become convinced that such a solution may not be had through Federal action, there remain but two avenues by which the problem can be approached. We must have recourse either to the establishment of reserves compulsorily maintained by industries, to which employees may contribute, in pursuance of State legislation, or voluntary reserves maintained by the industries themselves with the cooperation of their employees.

"Upon neither of these alternatives can Congress legislate effectively

in our opinion. It can only recommend.

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"Having in mind the attitude of some of the large employers of labor in establishing their own reserves, and that this method, after all, would perhaps prove the most satisfactory, nevertheless, we are not unmindful of the fact that relatively few employers of labor have made such provisions for their employees to guard against the inevitable in times of depression and lack of employment. The ideal solution, to our minds, would be the establishment of reserves by private industries in conjunction with their employees, each plant employer taking care of his own employees, at the same time fostering and encouraging the maintenance of those systems of unemployment benefits which the workers themselves have maintained for many But, again, the experience of the past demonstrates, to our satisfaction at least, that industry will not, at least for a long time, if ever, take upon itself without compulsion the establishment of such reserves. Therefore, we conclude that ultimately, at least, the States should formulate some program.

"It may well be advantageous to all concerned if some form of legislation can be enacted in the several States fixing a period during which industry can formulate plans for the establishment of proper reserves. What that period of waiting should be we are not prepared to say, but we rather think it should be left to the well-considered judgment of those in charge of governmental affairs and those industries in the several States. If at the end of such a period of waiting industry has not responded to the demand which is felt now, and which perhaps will continue to arrest our attention, then the only remaining solution will be the enactment by the States of compulsory unemployment insurance laws, or, at any rate, the maintenance of reserves for unem-

ployment benefits.

"We shall not attempt to analyze the many plans which were suggested to us in the course of our hearings. They are available in the printed reports of the testimony which was presented during our investigation. The most practical of them might be summarized as follows:

"1. The maintenance of reserves by employers without fixing the amount of the contributions thereto.

"2. Voluntary contributions from employees.

"3. Reserves to be set up for each employee individually to meet his own personal risk, all to be in the control of trustees to be chosen by employers and employees or, if preferred, to be chosen by State officials or by officials of the Federal Government.

"4. Fund to be registered with some Government authority, and be wholly independent of any control by the employer or the employee, so that in case of bankruptcy or failure of the employer the fund would not be subject to depreciation, but remain intact.

"5. Providing a very considerable degree of flexibility in the administration of such funds, by permitting trustees to shorten or lengthen the so-called waiting period, increasing or reducing the allowance to the unemployed as the conditions of the fund, or the exigencies of the occasion might require, and limiting, if need be, the period during which benefits shall be paid.

"6. Workingmen to have a right of review of disputed cases.

"7. Whenever such funds shall be established and maintained in a way satisfactory to the Federal Government, then credit is to be allowed to employers as a deduction from income in computing Federal

taxes of some proportion of the contributions.

"We have already outlined some of the objections which to us are apparent and which have led us to the conclusion that the subject of unemployment insurance is not within the sphere of congressional action. We repeat that any system of Federal unemployment insurance, even though it were found to be within the limitations of our fundamental law, would be inadvisable, and would give rise to problems of far greater significance in their implications than those we are

endeavoring to solve.

"While we have expressed the opinion that the several States may find compelling reasons for requiring the maintenance of some system of unemployment insurance by industry, here again, in our judgment, the States themselves, if they should lend their credit to it, would be confronted with very much the same problems as would be the Federal Government, though of a lesser degree, if they shall at any time hereafter, without more experience than is now available, launch out upon such an undertaking. We observe a fundamental difference between unemployment reserves compulsorily maintained by individual plants in industry and to which employees might contribute, and any system that might be established by the States themselves and to which they might be expected to lend their credit. In the one instance the plan depends for its success upon the solution of problems arising in each industrial plant or other individual activity. In the other it is the sum total of all these which aggravates the situation and renders a solution so difficult.

"Individual systems will bring into play the forces of self-interest and self-help and, it is natural to assume, some degree of cooperation. There will at least be an incentive for lessening the need of contributions which in some measure would affect the cost of production, whereas, in State-maintained systems, experience demonstrates there is or has been no such incentive. We make these observations, however, without intending to impinge upon the rights or to assume the attitude of counselors of the sovereign States, realizing these are questions wholly within their power to consider and to resolve in such

manner as they shall deem advisable.

"Having reached the conclusion that some form of reserves for the relief of the workers of the country should be provided by individual employers, with the possible cooperation of employees, and not by

the Federal Government or by the States, yet the Federal Government as well as the States may well consider it to be not without the scope of their powers or of their obligations to their citizens to contribute in some measure to the removal of difficulties which exist and which may recur. We, therefore, recommend that the Federal Government contribute to such systems of private unemployment reserves to the extent of permitting employers who maintain them to deduct some portion, if not all, of the contributions thereto out of their income for tax purposes, just as they are now permitted to deduct as a part of the cost of doing business, all sums paid for insurance against the risks of workingmen's compensation and other forms of insurance coverage.

"The effect of the allowance of such credits will in a measure equalize the difference in the cost of maintaining such reserves among employers of labor in the States which require them as against

employers in those States where they may not be obligatory.

"In the hope of minimizing as far as possible the advantage of the employer who refuses to recognize any responsibility for unemployment, and whose State does not require that he do so, we recommend that this entire subject be given consideration and study by the governors' conference at its future meetings, to the end that uniformity may be established in the several States.

"In their study of the subject, it is urged that the governors' conference consider the advisability of enacting some legislation which will authorize the already existing insurance companies to assume risks of unemployment, subject to such regulations and safeguards

as the legislatures of the several States may see fit to impose.

"The obstacles to be overcome in our endeavors to find a solution of the questions of unemployment, its causes and their removal, offer a challenge to our most earnest and unselfish cooperation. The observations made herein and in the testimony taken in the course of our hearings will, it is hoped, assist in reaching some definite and sound conclusion."

Report of Senator Wagner

The views of Mr. Wagner, minority member of the committee, were presented in a separate report and were summed up as follows:

"1. The evil consequences of unemployment can, and should be, mitigated by the establishment of unemployment insurance or wage reserves.

"2. Unemployment insurance or wage reserves, to be successful, should be inaugurated under compulsory State legislation and be

supervised by State authority.

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"3. The Federal Government should encourage State action by (a) cooperating with the States in the establishment of a nation-wide employment service, and (b) by allowing employers to deduct from income tax a portion of their payments into unemployment reserves or toward unemployment insurance.

"4. Every system of unemployment insurance or reserves should be organized to provide incentives to the stabilization of employment.

"5. The insurance or wage reserve system should be built on a plan financially and actuarially sound so that the premiums paid into the fund shall be sufficient to meet the obligations of the fund.

"6. Compulsory unemployment insurance eliminates the competitive advantage of the employer who refuses to recognize his business responsibility for unemployment.

"7. Compulsory unemployment insurance preserves the mobility of the worker and his freedom of action in attempting to improve his

economic position.

"8. Unemployment insurance will beneficially affect not only the workers but agriculture, industry, and trade; all alike profit from

sustained purchasing power.

"9. Sound business and good conscience both demand that, in dealing with unemployment, we abandon the methods of poor relief, with its ballyhoo, its inadequacy, inequality, and uncertainty, which are a drain on the sympathy of the giver and a strain on the character of the taker. Let us, like civilized men and women, organize intelligently to prepare to-day for the exigencies of the future."

Railway Labor's Plan for Federal Credit to Unemployed

THE extension of Federal emergency credit to unemployed heads of families to purchase the necessaries of life is advocated by the Railway Labor Executives' Association in a plan recently made public.

The principal proposals of this new scheme for dealing with the

present industrial situation are given below:

1. The United States Exchange Corporation would be created which would function in a manner similar to the United States Finance Corporation but for the purpose of placing credit behind buying power instead of behind productive power.

The corporation would be managed by a board of directors and an advisory council representing all interests in the chief economic

activities of the United States.

2. The first task of this corporation would be to conduct, within 30 days, an emergency survey of the present demands upon essential industries for the necessaries of life which, as a result of lack of buying power, are not being met. This would reveal the character and volume of purchases which would result after the establishment of credit for jobless household heads, and the maximum expansion of employment which would follow from such an extension of buying power.

3. On the basis of this investigation the corporation would make arrangements to furnish credits to cover necessary purchases for six months to unemployed household heads in amounts of not more than \$300 for an individual and \$100 additional for each dependent, but

not to exceed \$500 for each head of a household.

4. The corporation would license producers, distributors, and transporters who would enter into an agreement to accept its credit certificates at their face value and comply with the regulations regarding the terms and conditions for purchasing and for producing goods and services. All purchases on credits would be made through these agencies.

5. These licensees would also be required to enter into an agreement (1) not to reduce wage scales below those in effect June 1, 1932, and

(2) to comply with other regulations in order to guarantee the furnishing of goods and services under proper conditions and at reasonable

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6. Applicants would obtain credit by signing notes to be repaid on or before 10 years after date, with interest at the rate of 1 per cent for the first year, 2 per cent for the second year, 3 per cent for the third year, and 4 per cent thereafter. Payments for goods would be made by such notes "accompanied by corresponding credit certificates signed by local agents" of the corporation. Credits would be allotted to States in accordance with either their population or the need for relief.

7. During the period the corporation is in existence borrowers from the corporation who obtain employment must agree to have their employers deduct 10 per cent of their wages to be applied on their debt to the corporation until it is paid. Employers would be required

to make these deductions.

8. The corporation would be empowered to make available credits for licensed producers to enable them to employ additional workers.

9. Authority would be given the corporation to issue notes, debentures, and bonds of an amount not to exceed five times the corporation's original capital, \$500,000,000, which would provide a revolving

fund of about \$3,000,000,000.

10. The corporation would be empowered to make loans to railroads and other essential undertakings, in order to finance deferred maintenance of present properties required to meet a future demand for necessary goods or services, the aggregate amount of such loans not to be more than \$250,000,000. This would, it is estimated, promote the prompt employment of several hundred thousand men.

11. In case State or municipal relief agencies request credits in order to meet requirements for charitable relief, after other sources of relief funds are exhausted, credits could be extended on the notes of such State or municipal agencies; the total amount of such credits not to exceed \$250,000,000, provided the credit facilities of the United

States Exchange Corporation have not been exhausted.

Congressional Bills

Senator Costigan, on July 1, 1932, introduced a bill (S. 4947) embodying the above proposal. A similar measure (H. R. 12885) was introduced in the House on the same day by Representative LaGuardia.

Results of American Legion Drive for Employment

THE American Legion reports success in a drive to place 1,000,000 persons in employment. The Legion's announcement was made shortly after July 1, 1932, the date set for closing the campaign to find jobs, and it was then proposed to make new plans to increase employment. The campaign was begun on February 15, 1932, by the American Legion, the American Federation of Labor, the Association of National Advertisers, and the Legion Auxiliary, in cooperation with the United States Employment Service.

Placements effected numbered something in excess of 1,000,000, of which number 79,427 are credited to New York, 71,608 to California, and 67,133 to Illinois. In all, 3,177 communities took an active part in the campaign and \$51,931,843 was raised for made-work programs. In giving out the results of the campaign no statement was made as to the duration of the jobs obtained.

Employment Measures Adopted by New England Manufacturers

In A brief report entitled "What New England manufacturers are doing to improve earnings in 1932," the industrial committee of the New England Council summarizes information obtained by questionnaire from 490 manufacturers. The report lists 36 different plans and shows the per cent of reporting firms in each specified manufacturing group using the various plans. The measures relating to employment included the adjusting of weekly working hours to the available work, provision of maximum security of employment for a stable force, and the establishment of private reserves for unemployment. The proportion of the reporting firms which have adopted these plans is shown, by manufacturing group, in the following statement compiled from the report.

PER CENT OF NEW ENGLAND MANUFACTURERS, IN VARIOUS MANUFACTURING GROUPS, USING SPECIFIED EMPLOYMENT PLANS

Shortening	Provision of maxi- mum	Establish- ment of	Reports received	
hours to conform to available work	security of em- ployment for stable force	private reserves for unem- ployment	Num- ber	Per cent of total
Per cent	Per cent	Per cent		
41	78	37	46	
	66	46	50	
44				
	working hours to conform to available work	Weekly working hours to conform to available work	Meeking hours to conform to available work	Neeking hours to conform to available work

Preliminary Recommendations of New York Legislative Committee on Unemployment

THE joint committee appointed in New York to make a study of all the aspects of unemployment presented a preliminary report

to the legislature of that State on February 15, 1932.

On the basis of its study the committee concludes that there are three choices open in caring for unemployed workmen: (1) They may be allowed to starve wholesale; (2) they may be supported by social organizations; (3) machinery may be provided to care for them through a system of unemployment reserves. The committee is of the opinion that it would not be feasible to build up sufficient reserves to meet the entire cost of unemployment; it does, however, recom-

mend the establishment of reserves, with further provision that in periods of unusual stress the State shall provide, through public welfare agencies, financial support sufficient to prevent starvation and destruction of morale.

The following measures are recommended:

1. An amendment to the insurance law to authorize the voluntary formation, by employers, of employment benefit reserve systems to which employees may, if they so desire, contribute under the jurisdiction of the superintendent of insurance, and to permit insurance corporations to carry out contracts with such systems.

2. The creation in the executive department division of the budget of a board

for the long-range planning of public works.

3. An amendment to the [State] constitution to permit the issuance of short-

term bonds for public works in times of depression.

4. Legislation to provide a compensatory refund from franchises or income taxes to employers who adopt an approved plan for an unemployment benefit reserve system.

5. Legislation for the license and control by the State of private fee-charging

employment agencies.

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6. The collection and compilation by the State of additional statistics covering employment and unemployment comparable to employment data now collected in the fields of manufacture and building construction for trade, retail and whole-sale; for transportation in all its important branches; for public utilities; for service industries such as hotels, garages, laundries, etc.; for employment in clerical and accounting work and for "man-hour" data in the fields now covered and those recommended for inclusion here.

7. That if the committee be continued for another year it be authorized to investigate the matter of the regulation of the sale of securities in relation to its

possible effect as an overstimulant to business booms.

That the committee be continued until March 1, 1933, for the purpose of further study and development of its general plan as outlined above.

Unemployment in Foreign Countries

THE following table gives detailed monthly statistics of unemployment in foreign countries, as shown in official reports, from June, 1930, to the latest available date.

STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES:

June July Aug Sept Octo Nov Dec

Janu Feb Mai Apr Mai Juni July Aug Sepi Octo Nov Dec

Jan Feb Ma Apr Ma Jun

Jun Jul; Au; Sep Oct No: Dec

Jan Fel Ma Ap Ma Jur Jul Au Ser Oct No De

Jan Fel Ma Ap Ma Jun

	Aus	tralia	Austria		Belg	gium	
		inionists ployed	Compul- sory in-	Unen	ployment i	nsurance so	ocieties
Date (end of month)	Number	Per cent	surance, number unem- ployed		y unem- oyed	Partially plo	y unem-
		la mil	in receipt of benefit	Number	Per cent	Number	Per cent
1930							
June	80, 595	18. 5	150, 075	12, 226		41, 336	6.
July			153, 188	15, 302	2.4	48, 580	7.
August September	90, 379	20. 5	156, 145	17, 747	2.8	51, 649	8.
October		20. 0	163, 894 192, 778	23, 693 27, 322		61, 623 54, 804	9.
November	(2)		237, 745	38, 973		76, 043	8. 12.
December	104, 951	23. 4	294, 845	63, 585		117, 167	17.
1931	1						
January			331, 239	77, 181	11.1	112, 734	16,
February	(2)		334, 041	81, 750	11.7	121, 906	19.
March	113, 614	25. 8	304, 084	81, 305	11.3	125, 972	17,
April May	(2)		246, 845	70, 377		110, 139	15.
June	118, 424	27.6	208, 852 191, 150	56, 250 62, 642	7.9	97, 755 101, 616	13.
July	(2)	21.0	194, 364	64, 644		116, 747	14.
August	(2)		196, 321	70, 893		120, 669	16.
September		28.3	202, 130	74, 175	10.3	119, 433	16.
October	(2)		228, 101	82, 811	11.3	122, 733	16.
November December	118, 732	28.0	273, 658 329, 627	93, 487 128, 884	13. 3 17. 0	134, 799 159, 941	19.
DOWN DOI	110, 102	20.0	323, 021	120,00%	11.0	100, 511	21.
1932	-						
January	(2)		358, 114	153, 920		179, 560	23.
February March		28. 3	361, 948	168, 204	21.3	180, 079	22.1
April	(2)	25. 3	352, 444 303, 888	155, 653 152, 530		185, 267 183, 668	23. 22.
May	(2)		271, 481	104,000	20.0	200,000	24.
June	124, 068	30.0	265, 049				
June 10 Company	Canada	Cz	echoslovak		(Free City of)	Denmark	
Date (end of month)	Per cent of trade- unionists unem-	Number of unem- ployed on live	Trade-uni ance fu employe ceipt of	nds—un- d in re-	Number of unem- ployed	ployed ployment in unemployed	
	ployed	register	Number	Per cent	registered	Number	Per cent
1930		register					Per cent
une	10. 6	73, 464	37, 853	3. 4	14, 975	24, 807	8.1
uneulv	10. 6	73, 464 77, 309	37, 853 46, 800	3. 4 4. 1	14, 975 15, 330	24, 807 26, 200	8.7 9.1
une	10. 6 9. 2 9. 3 9. 4	73, 464 77, 309 88, 005	37, 853 46, 800 52, 694	3. 4 4. 1 4. 7	14, 975 15, 330 15, 687	24, 807 26, 200 26, 232	8. 9. 9.
une uly August September October	10. 6 9. 2 9. 3 9. 4 10. 8	73, 464 77, 309 88, 005 104, 534 122, 379	37, 853 46, 800	3. 4 4. 1	14, 975 15, 330 15, 687 16, 073 17, 307	24, 807 26, 200 26, 232 27, 700 32, 880	8. 9. 9. 9.
une uly	10. 6 9. 2 9. 3 9. 4 10. 8	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200	8. 9. 9. 9. 11. 15.
une uly ugust eptember october November	10. 6 9. 2 9. 3 9. 4 10. 8	73, 464 77, 309 88, 005 104, 534 122, 379	37, 853 46, 800 52, 694 57, 542 61, 213	3. 4 4. 1 4. 7 5. 3 5. 5	14, 975 15, 330 15, 687 16, 073 17, 307	24, 807 26, 200 26, 232 27, 700 32, 880	8. 9. 9. 9. 11. 15.
une uly uly eptember obctober November December	10. 6 9. 2 9. 3 9. 4 10. 8	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200	8. 9. 9. 9. 11. 15.
une uly August September October November December	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100	8. 9. 9. 9. 11. 15. 24. 4
une uly	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427	8.7 9.9 9.11.15.5 24.6
une uly August september October November December 1931 anuary Aarch	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725	S. 9. 9. 9. 11. 15. 24. 26. 22.
une uly August leptember October November December 1931 anuary Pebruary March	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698	8. 9. 9. 9. 11. 15. 24. 26. 22.
une uly August Leptember October November December 1931 anuary Pebruary March Lpril May une	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725	8. 9. 9. 9. 11. 15. 24. 26. 22. 15. 12.
une uly August September October November December 1931 anuary February March Lpril May une	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369	S. 9. 9. 9. 11. 15. 24. 26. 22. 15. 12. 11. 11.
une uly August September October November December 1931 anuary February March Lpril May une	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 6	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 060	8. 9. 9. 9. 11. 15. 24. 26. 22. 15. 11.
une uly August leptember October November December 1931 anuary Pebruary March Lpril May une uly Lugust Lugust eptember	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520 228, 383	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261 84, 660	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 6 6. 7	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 060 35, 871	8. 9. 9. 9. 11. 15. 24. 24. 26. 22. 15. 12. 11.
une uly August September October November December 1931 anuary Sebruary March Alay une uly ungust eeptember september	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1 18. 3	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520 228, 383 253, 518	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261 84, 660 88, 600	3. 4 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 9	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922 24, 932	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 060 35, 871 47, 196	8. 9. 9. 9. 11. 15. 24. 6 22. 15. 12. 11. 8 12. 16. 6
une uly August leptember October November December 1931 anuary Nebruary Aarch Lpril Aay Lune uly Lugust eptember October October October October October	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520 228, 383	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261 84, 660	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 6 6. 7	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 060 35, 871	S. 9. 9. 9. 11. 15. 24. 26. 22. 15. 12. 11. 11. 12. 16. 22. 22.
une uly August September December 1931 anuary Sebruary March Lpril May Lune Luly Lugust September September Lyril September	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1 18. 3 18. 6	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520 228, 383 253, 518 336, 874	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261 84, 660 88, 660 106, 015	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 9 6. 7 6. 9 8. 2	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922 24, 932 24, 932 28, 966	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 060 35, 871 47, 196 66, 526	S. 9. 9. 9. 11. 15. 24. 26. 22. 15. 12. 11. 11. 12. 16. 22. 22.
fune uly August September October November December 1931 anuary February March April May une uly August September October November December	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1 18. 3 18. 6 21. 1	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520 228, 383 253, 518 336, 874 480, 775	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261 84, 660 88, 600 106, 015 146, 325	3. 4 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 9 8. 2 11. 3	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922 24, 932 28, 966 32, 956	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 060 35, 871 47, 196 66, 526 91, 216	8. 9. 9. 9. 11. 15. 24. 26. 22. 15. 12. 11. 11. 12. 30.
une uly August September October November December 1931 anuary Aarch Lpril Aay une uly uly uugust eptember Lotober November December	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1 18. 3 18. 6 21. 1	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520 228, 383 253, 518 336, 874	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261 84, 660 88, 660 106, 015	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 9 6. 7 6. 9 8. 2	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922 24, 932 24, 932 28, 966	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 060 35, 871 47, 196 66, 526	24. 24. 24. 24. 26. 22. 11. 11. 11. 12. 16. 22. 30. 4
fune uly August September October November December 1931 Sanuary March April May une uly Lugust Leptember September 1932 September 1932 September	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1 18. 3 18. 6 21. 1	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 249, 686 220, 038 209, 233 214, 520 228, 383 253, 518 336, 874 480, 775 583, 138 631, 736 633, 907	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 600 106, 015 146, 325 186, 308 197, 612 195, 076	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 6 6. 7 6. 9 8. 2 11. 3	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922 24, 932 28, 966 32, 956 34, 912 36, 258 36, 481	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 871 47, 196 66, 526 91, 216	8. 9. 9. 9. 11. 15. 24. 26. 22. 15. 11. 8 11. 8 12. 16. 6 22. 3 30. 4 35. 1 37. 3 37. 5
dune uly August September October November December 1931 Septuary March April May une uly uly uly uly sugust september October November December 1932 anuary Septuary	10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0 16. 0 15. 6 15. 5 14. 9 16. 2 15. 8 18. 1 18. 3 18. 6 21. 1	73, 464 77, 309 88, 005 104, 534 122, 379 155, 203 239, 564 313, 511 343, 972 339, 505 296, 756 249, 686 220, 038 209, 233 214, 520 228, 383 253, 518 336, 874 480, 775	37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759 86, 261 84, 660 88, 600 106, 015 146, 325 186, 308 197, 612	3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3 9. 5 10. 0 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 6 6. 7 6. 9 8. 2 11. 3	14, 975 15, 330 15, 687 16, 073 17, 307 20, 272 24, 429 27, 081 28, 192 27, 070 24, 186 20, 686 19, 855 20, 420 21, 509 22, 922 24, 932 24, 932 28, 966 32, 956	24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961 73, 427 67, 725 45, 698 37, 856 34, 030 36, 369 35, 871 47, 196 66, 526 91, 216	24. 24. 24. 24. 26. 22. 11. 11. 11. 12. 16. 22. 30. 4

See footnotes at end of table.

STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES-Continued

	Estonia	Finland	France		Gern	nany	
	Number				Т	rade-union	ists
Date (end of month)	unem- ployed remain- ing on live register	Number of unem- ployed registered	Number of unem- ployed in receipt of benefit	Number of unem- ployed registered	Per cent wholly unem- ployed	Per cent partially unem- ployed	Number unem- ployed in receipt of benefit
1930	-	0.750		0 010 001	10.0	10.0	1 004 000
JuneJuly	910 762	3, 553 4, 026	1, 019 856	2, 640, 681 2, 765, 258		12. 6 13. 9	1, 834, 662 1, 900, 961
Angust	1, 039	5, 288	964	2, 883, 000		14.8	1, 947, 811
Sentember	1,414	7, 157	988	3, 004, 000		15. 1	1, 965, 348
October	3, 282 5, 675	10, 279 10, 740	1, 663 4, 893	3, 252, 000 3, 683, 000		15. 4 16. 1	2, 071, 730 2, 353, 980
November	6, 163	9, 336	11, 952	4, 384, 000		16. 9	2, 822, 598
	0,200	0,000		4,004,000			-,,
1931 January	5, 364	11,706	28, 536	4, 887, 000	34. 2	19. 2	3, 364, 770
February	4,070	11, 557	40, 766	4, 972, 000	34. 5	19. 5	3, 496, 979
March	2, 765	11, 491	50, 815	4, 756, 000		18. 9	3, 240, 523
April	2, 424 1, 368	12, 663 7, 342	49, 958 41, 339	4, 358, 000 4, 053, 000	31. 2 29. 9	18. 0 17. 4	2, 789, 627 2, 507, 732
MayJune	931	6, 320	36, 237	3, 954, 000	29.7	17.7	2, 353, 657
July	634	6, 790	35, 916	3, 976, 000	31.0	19. 1	2, 231, 513
August	933	9, 160	37, 673	4, 215, 000	33. 6	21. 4	2, 376, 589
September	2,096	12, 176	38, 524	4, 355, 000 4, 623, 480		22. 2 22. 0	2, 483, 364 2, 534, 952
October November	5, 425 7, 554	14, 824 18, 095	51, 654 92, 157	5, 059, 773		21.8	2, 334, 952
December		17, 223	147, 009	5, 668, 187		22. 3	3, 147, 867
1932			168				
January	9,318	20, 944	241, 487	6, 041, 910		22.6	3, 481, 418
February	9,096	18, 856	293, 198	6, 128, 429		22.6	3, 525, 486
March	8, 395	16, 723 17, 699	303, 218 282, 013	6, 034 100 5, 934, 202		22. 6 22. 1	3, 323, 109 2, 906, 890
April May	6, 029 4, 853	16, 885	262, 184	5, 582, 620		22. 9	2, 658, 042
June		13, 189	232, 371	5, 476, 000			2, 484, 944
	Great B	ritain and	Northern	Ireland	Great Britain	Hu	ngary
			Northern y insurance		Britain	Trade-un	ionists un-
Date (end of month)	Wholly	Compulsor,	y insurance	ary stop-	Number of persons registered	Trade-un emp	nionists un-
Date (end of month)	Wholly	Compulsor	y insurance Tempor	ary stop-	Number of persons	Trade-un	ionists un-
1930	Wholly plo	unem- yed Per cent	Tempor pa	ary stop- ges Per cent	Number of persons registered with em- ployment exchanges	Trade-un emp Christian (Buda- pest)	Social- Demo- cratic
1930 June	Wholly plo Number	ompulsor y unem- yed Per cent	Tempor pa Number 569, 931	ary stop- ges Per cent	Number of persons registered with employment exchanges	Trade-un emp Christian (Buda- pest)	Social-Demo-cratic
June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990	vunem-yed Per cent	Y insurance Tempore pa Number 569, 931 664, 107	ary stop- ges Per cent	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467	Trade-un emp Christian (Buda- pest)	Social-Demo-cratic
June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990	vunem-yed Per cent	Y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692	ary stop- ges Per cent 4.7 5.5 5.1 5.0	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955	Trade-un emp Christian (Buda- pest) 829 920 847 874	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 252
June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731	Per cent 1. 1. 1 1. 1. 6 1. 12. 4 3. 13. 1 13. 9	Y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223	Per cent 4. 7 5. 5 5. 1 5. 0 4. 8	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413	Trade-un emp Christian (Buda- pest) 829 920 847 874 999	Social- Demo- cratic 18, 960 19, 081 21, 013 22, 252 22, 914
June 1930 June August September Detober November	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 286	Per cent 3 11.1 1 11.6 0 12.4 3 13.1 1 13.9 0 14.8	y insurance Tempora Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518	ary stop- ges Per cent 4.7 5.5 5.1 5.0	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955	Trade-un emp Christian (Buda- pest) 829 920 847 874	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 252
June 1930 June August September Detober November	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 286	Per cent 3 11.1 1 11.6 0 12.4 3 13.1 1 13.9 0 14.8	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518	Per cent 4.7 5.5 5.1 5.0 4.8 4.3	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975	Social- Demo- cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333
June 1930 June Muly September December 1931 January 1930	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 578	Per cent 3 11.1 11.6 12.4 3 13.1 13.9 14.8 14.9	y insurance Tempore pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935	Social-Demo- cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648
June June July August September Decomber December 1931 January February	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 280 1, 853, 573 2, 044, 209 2, 073, 578	Per cent Per cent	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 438 2, 392, 738 2, 613, 749 2, 627, 559	Trade-un emp Christian (Budapest) 829 920 847 874 999 975 935	Social-Demo- cratic 18, 960 19, 081 21, 013 22, 252 22, 914 23, 333 24, 648 26, 191 27, 089
June 1930 June Luly August September Dectober November December 1931 January February March	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 996 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 208 2, 074, 258 2, 052, 826	Per cent Per cent 11.1 11.6 12.4 13.1 13.9 14.8 14.9 16.5	Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3 5.0 5.0 5.0	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 086 27, 086
June 1930 June Luly August September Dectober November December 1931 January February March	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 996 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 208 2, 074, 258 2, 052, 826	Per cent Per cent 11.1 11.6 12.4 13.1 13.9 14.8 14.9 16.5	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431	Trade-un emp Christian (Budapest) 829 920 847 874 999 975 935	Social-Demo-cratic 18, 966 19, 081 21, 013 22, 252 22, 914 23, 333 24, 648 26, 191 27, 086 27, 092 27, 192 26, 131
1930 June 1930 June 1930 June 1931 June 1930 J	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 996 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 206 2, 073, 578 2, 052, 826 2, 027, 896 2, 019, 533	Per cent Per cent 11.1 11.6 12.4 13.9 14.8 14.9 16.5 16.5 16.5 16.3	Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.0 5.0 4.6 4.5 5.4	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215	Trade-un emp Christian (Budapest) 829 920 847 874 999 975 935	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 085 27, 085 27, 085 27, 126 26, 139 28, 666
1930 June 1930 June 1930 June 1931 June 1930 J	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 996 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 206 2, 073, 578 2, 052, 826 2, 027, 896 2, 019, 533	Per cent Per cent 11.1 11.6 12.4 13.9 14.8 14.9 16.5 16.5 16.5 16.3	Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3 5.0 5.0 4.6 4.5,9	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935 953 965 996 1,042 843 751 876	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 086 27, 086 27, 126 26, 131 23, 66, 136 26, 322
1930 June 1930 June 1930 June 1931 June 1930 J	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 996 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 206 2, 073, 578 2, 052, 826 2, 027, 896 2, 019, 533	Per cent Per cent 11.1 11.6 12.4 13.9 14.8 14.9 16.5 16.5 16.5 16.3	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342	Per cent 4. 7 5. 5 5. 1 5. 0 4. 8 4. 3 5. 3 5. 0 5. 0 4. 6 4. 5 5. 4	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935 953 965 966 1, 042 843 751 876 941	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 086 27, 126 26, 328 28, 471 28, 771
1930 June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 996 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 206 2, 073, 578 2, 052, 826 2, 027, 896 2, 019, 533	Per cent Per cent 11.1 11.6 12.4 13.9 14.8 14.9 16.5 16.5 16.5 16.5 16.3	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342 663, 466 487, 591	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3 5.0 5.0 4.6 4.5 5.4 5.9 5.4 5.3 3.8	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935 953 965 996 1, 042 843 751 876 941 932 1, 020	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 086 27, 095 27, 120 26, 131 23, 666 26, 328 28, 471 28, 716 28, 998
1930 June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 209 2, 073, 578 2, 052, 826 2, 027, 896 2, 037, 480 2, 073, 802 2, 142, 821 2, 217, 086 2, 207, 886 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 217, 086 2, 294, 902	Per cent Per cent Per cent 11. 1 11. 6 12. 4 3. 13. 1 13. 9 14. 8 14. 9 16. 5 16. 7 3. 16. 3 16. 3 16. 3 17. 9 18. 1 18. 1	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342 663, 466 487, 591 439, 952	Per cent 4. 7 5. 5 5. 1 5. 0 4. 8 4. 3 5. 3 5. 0 5. 0 4. 6 4. 5 5. 4 5. 3 3. 8 3. 4	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559 2, 656, 688	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935 953 965 996 1,042 843 751 876 941 932 1,020 1,169	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 086 27, 086 27, 126 26, 131 23, 632 24, 648 28, 971 28, 916 29, 907
1930 June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 280 1, 853, 573 2, 044, 209 2, 073, 578 2, 044, 209 2, 073, 578 2, 027, 890 2, 019, 533 2, 037, 480 2, 073, 892 2, 142, 821 2, 17, 080 2, 305, 388 2, 294, 902 2, 262, 700	Per cent Per cent	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342 663, 466 487, 591 439, 952	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3 5.0 5.0 4.6 4.5 5.4 5.9 5.4 5.3 3.8	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935 953 965 996 1,042 843 751 876 941 932 1,020 1,169	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 086 27, 086 27, 086 28, 471 28, 716 28, 990 29, 900
1930 June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 996 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 206 2, 073, 578 2, 052, 826 2, 027, 896 2, 037, 480 2, 037, 480 2, 142, 821 2, 217, 086 2, 305, 388 2, 294, 90 2, 262, 700 2, 354, 044	Per cent Per cent Per cent 11. 1 11. 6 12. 4 23. 13. 1 13. 9 14. 8 14. 9 16. 5 16. 7 3. 16. 3 16. 3 16. 3 17. 9 18. 1 18. 4 18. 4	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342 663, 466 487, 591 439, 952 408, 117	Per cent 4. 7 5. 5 5. 1 5. 0 4. 8 4. 3 5. 3 5. 0 5. 0 4. 6 4. 5 5. 4 5. 3 3. 8 3. 4	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559 2, 656, 088 2, 569, 949	Trade-un emp Christian (Buda-pest) 829 920 847 874 999 975 935 953 965 996 1, 042 843 751 876 941 932 1, 020 1, 169 1, 240	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 252 22, 914 23, 333 24, 648 26, 191 27, 086 27, 092 27, 122 26, 131 23, 666 26, 328 28, 471 28, 716 28, 990 29, 907 31, 906
1930 June	Wholly plo Number 1, 341, 818 1, 405, 96 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 573 2, 044, 206 2, 073, 578 2, 052, 826 2, 019, 533 2, 037, 486 2, 073, 892 2, 142, 827 2, 142, 827 2, 142, 827 2, 142, 827 2, 142, 827 2, 217, 086 2, 305, 388 2, 294, 902 2, 262, 706 2, 354, 044 2, 317, 784	Per cent Per cent	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342 663, 466 487, 591 439, 952 408, 117 500, 746 491, 319	ary stop- ges Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3 5.0 5.0 5.0 4.6 4.5 5.4 5.9 5.4 5.9 5.4 3.2 4.0 3.8	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559 2, 656, 088 2, 569, 949 2, 728, 411 2, 701, 173	Trade-un emp Christian (Budapest) 829 920 847 874 999 975 935 965 996 1, 042 843 751 876 941 1, 182 1, 020 1, 169 1, 240	Social-Demo-cratic 18, 966 19, 081 21, 013 22, 252 22, 914 23, 333 24, 648 26, 191 27, 086 27, 192 26, 131 28, 491 28, 491 28, 998 29, 907 31, 906
1930 June July August September Doctober November December 1931 January March April May June July July July July July July July July	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 280 1, 853, 573 2, 044, 209 2, 073, 578 2, 052, 826 2, 027, 896 2, 037, 486 2, 037, 486 2, 037, 486 2, 037, 486 2, 307, 389 2, 142, 821 2, 17, 086 2, 305, 388 2, 294, 90 2, 262, 700 2, 354, 044 2, 317, 784 2, 233, 428	Per cent Per cent	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342 663, 466 487, 591 439, 952 408, 117 500, 746 491, 319 426, 989	Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3 5.0 5.0 4.6 4.5 5.4 5.9 5.4 5.3 3.8 3.4 3.2	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 438 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559 2, 656, 088 2, 569, 949 2, 728, 411 2, 701, 173 2, 567, 332	Trade-un emp Christian (Budapest) 829 920 847 874 999 975 935 953 965 996 1, 042 843 751 876 941 1, 020 1, 169 1, 240 1, 182 1, 083 1, 024	Social-Demo-cratic 18, 960 19, 081 21, 013 22, 255 22, 914 23, 333 24, 648 26, 191 27, 086 27, 192 26, 131 28, 660 26, 322 28, 471 28, 716 28, 998 29, 900 31, 900
1930 June	Wholly plo Number 1, 341, 818 1, 405, 981 1, 500, 991 1, 579, 708 1, 725, 731 1, 836, 286 1, 853, 578 2, 044, 209 2, 073, 578 2, 052, 826 2, 027, 896 2, 037, 486 2, 073, 882 2, 142, 821 2, 217, 088 2, 208, 388 2, 294, 902 2, 262, 706	Per cent Per cent	y insurance Tempor pa Number 569, 931 664, 107 618, 658 608, 692 593, 223 532, 518 646, 205 618, 633 623, 844 612, 821 564, 884 558, 383 669, 315 732, 583 670, 342 663, 466 487, 591 439, 952 408, 117 500, 746 491, 319 426, 989 521, 705	ary stop- ges Per cent 4.7 5.5 5.1 5.0 4.8 4.3 5.3 5.0 5.0 5.0 4.6 4.5 5.4 5.9 5.4 5.9 5.4 3.2 4.0 3.8	Number of persons registered with employment exchanges 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738 2, 613, 749 2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 431 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559 2, 656, 088 2, 569, 949 2, 728, 411 2, 701, 173	Trade-un emp Christian (Budapest) 829 920 847 874 999 975 935 965 996 1, 042 843 751 876 941 1, 182 1, 020 1, 169 1, 240	Social-Demo-cratic 18, 966 19, 081 21, 013 22, 252 22, 914 23, 333 24, 648 26, 191 27, 086 27, 192 26, 131 28, 491 28, 491 28, 998 29, 907 31, 906

STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES-Continued

	Irish Free State	It	aly	Latvia	Nethe	erlands
Date (end of month)	Compulsory insurance		of unem- registered	Number unemployed	Unemploy surance unempl	societies-
	number unem- ployed	Wholly unem- ployed	Partially unem- ployed	remaining on live register	Number	Per cent
1930						
June	19, 146	322, 291 342, 061	21, 883			U C
July		375, 548	24, 209 24, 056			0.1
September	20, 775	394, 630	22, 734			7.6
October	22, 990	446, 496	19, 081	6,058	41, 088	9.
November	25, 622	534, 356	22, 12			11.5
December	26, 167	642, 169	21, 788	10, 022	81, 204	18.
1931						
January	28, 681	722, 612	27, 924	9, 207		
February	26, 825	765, 325	27, 110			
March	25, 413 23, 970	707, 486	27, 545 28, 780	8,450		
AprilMay	23, 016	670, 353 635, 183	26, 059		68, 860	
June		573, 593	24, 206			
July		637, 531	25, 821			
August		693, 273	30, 636		70, 479	
September	23, 427	747, 764	29, 822		72, 738	15.5
October	26, 353	799, 744	32, 828			18.
November	30, 865	878, 267	30, 967			
December	30, 918	982, 321	32, 949	21, 935	147, 107	27.8
1932		Land year				
January		1, 051, 321	33, 277			
February		1, 147, 945	26, 321 31, 636			
March April		1, 053, 016 1, 000, 025	32, 720			21. 21.
May		968, 456	35, 528		112, 325	22.
June		905, 097		-	113, 978	
	New Zealand		Norway		Poland	Rumania
Date (end of month)	Trade-	Trade-unio		Number unem-	Number unem-	Number
Date (end of month)	unionists, number		onists (10 unem-	unem- ployed remaining	unem- ployed registered	Number unem- ployed remaining
Date (end of month)	unionists,	unions)		unem- ployed	unem- ployed	unem- ployed
Date (end of month)	unionists, number unem- ployed	unions) ployed Number	Per cent	unem- ployed remaining on live register	unem- ployed registered with em- ployment offices	unem- ployed remaining on live register
1930 June	unionists, number unem- ployed	nunions) ployed Number	Per cent	unem- ployed remaining on live register	unem- ployed registered with em- ployment offices	unem- ployed remaining on live register
1930 JuneJuly	unionists, number unem- ployed	unions) ployed Number 4, 700 4, 723	Per cent	unem- ployed remaining on live register	unem- ployed registered with em- ployment offices 204, 982 193, 687	unem- ployed remaining on live register 22, 96 23, 23
1930 JuneJulyAugust	unionists, number unem- ployed	unions) ployed Number 4, 700 4, 723 5, 897	Per cent	unem- ployed remaining on live register 13, 939 11, 997 12, 923	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627	unem- ployed remaining on live register 22, 96 23, 23 24, 20
June	unionists, number unem- ployed	unions) ployed Number 4,700 4,723 5,897 7,010	10. 8 10. 8 10. 8 13. 4 15. 7	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467	unemployed remaining on live register 22, 96 23, 23 24, 20 39, 11
June	unionists, number unem- ployed	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154	unemployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14
June July August. September October November.	unionists, number unem- ployed (3) (7, 197 (7) (2) (8) 8, 119	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396	10. 8 10. 8 10. 8 13. 4 15. 7	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912	unem- ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68
June July August September October November December	unionists, number unem- ployed	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154	unem- ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68
June July August September October November December	unionists, number unem- ployed (1) (2) 7, 197 (3) (4) (5) 8, 119 (7)	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797	unem- ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21
June	unionists, number unem- ployed (1) (2) 7, 197 (3) (4) (5) 8, 119 (7)	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718	unem- ployed remaining on live register 22, 96 23, 23, 24, 20 36, 11 36, 14 42, 68 36, 21; 38, 80
June July August September October November December 1931 January February March	(2) (3) (4) (7) (9) (7) (9) (8) (19) (9) (9) (19) (19) (19) (19) (20) (21) (31) (41) (42) (43) (43) (43) (43) (43) (43) (43) (43	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536	unem-ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21 38, 80 43, 27 48, 22
June July August September October November December 1931 January February March	(2) (3) (4) (7) (7) (7) (7) (9) (1) (8) (1) (8) (1) (2) (2) (3) (4) (5) (5) (6) (7) (7) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	10.8 10.8 13.4 15.7 18.0 21.4 25.5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679	unem- ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21 38, 80 43, 27 48, 22 41, 51
June	(1) (2) (3) (7) (4) (7) (7) (9) (9) (1) (1) (2) (2) (3) (4) (5) (3) (4) (5) (4) (5) (6) (7)	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213	10.8 10.8 13.4 15.7 18.0 21.4 25.5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104	unem- ployed remaining on live register 22, 96 23, 23, 24, 20 36, 11 36, 14 42, 68 36, 21; 38, 80 43, 27 48, 22 41, 511 33, 48
June	(1) (2) (3) (4) (7) (9) (9) (8) (19) (9) (9) (9) (19) (19) (19) (19) (unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213	10.8 10.8 13.4 15.7 18.0 21.4 25.5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942	unem- ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21 38, 80 43, 27 48, 22 41, 51 33, 48 28, 09
June	(2) (3) (4) (7) (9) (8) (19) (2) (8) (19) (2) (3) (3) (4) (5) (5) (6) (9) (19) (19) (19) (2) (3) (4) (5) (4) (5) (7) (7) (8) (8) (9) (9) (9) (19) (19) (19) (19) (19) (unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213	10.8 10.8 13.4 15.7 18.0 21.4 25.5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179	unem- ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21 38, 80 43, 27 48, 22 41, 51 33, 48 22, 99, 25
June	(2) (3) (4) (7) (7) (7) (8) (19) (8) (19) (2) (3) (4) (5) (4) (5) (7) (8) (19) (19) (2) (3) (40) (40) (40) (40) (40) (40) (40) (40	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213	10.8 10.8 13.4 15.7 18.0 21.4 25.5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380	unem-ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21: 38, 80 43, 27 48, 224 41, 51: 33, 48 28, 09: 29, 25 22, 70:
June	(2) (3) (4) (7) (4) (7) (7) (9) (1) (8) (1) (2) (2) (3) (4) (4) (5) (7) (8) (9) (1) (9) (1) (1) (1) (2) (3) (4) (4) (4) (5) (6) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213	10.8 10.8 13.4 15.7 18.0 21.4 25.5	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 731 27, 012	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426	unem-ployed remaining on live register 22, 96 23, 23, 24, 20 30, 110 36, 14 42, 68: 36, 21: 38, 80 43, 27 48, 22: 41, 51: 33, 48 28, 09: 29, 25: 22, 700 22, 90:
June July August September October November December 1931 January February March	(2) (3) (4) (7) (4) (7) (7) (9) (1) (8) (19) (2) (2) (3) (4) (4) (5) (5) (6) (7) (8) (9) (9) (9) (9) (10) (10) (10) (10) (10) (10) (10) (10	unions) ployed Number 4,700 4,723 5,897 7,010 8,031 9,396 11,265 11,692 (2) 11,213 (2)	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5 26. 3 24. 9	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380	unem- ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21 38, 80 43, 27 48, 22 41, 51 33, 48 22, 90 29, 25 22, 70 22, 90 28, 80
June July August September October November December 1931 January February March April May June July August September October November December	(1) (2) (3) (4) (7) (4) (7) (9) (8) (19) (9) (9) (9) (19) (19) (19) (19) (unions) ployed Number 4,700 4,723 5,897 7,010 8,031 9,396 11,265 11,692 (3) 11,213 (2)	10.8 10.8 10.8 13.4 15.7 18.0 21.4 25.5 26.3 24.9	unem- ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431 27, 012 29, 340	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 255, 622	unem-ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21: 38, 80 43, 27 48, 22 41, 51: 33, 48 28, 93: 22, 70: 22, 90: 28, 800 43, 91'
June	(2) (3) (4) (7) (9) (7) (9) (8) (19) (9) (19) (19) (19) (20) (19) (21) (31) (40) (50) (40) (50) (40) (50) (40) (50) (50) (60) (7) (84) (7) (7) (84) (84) (84) (84) (84) (84) (84) (84	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (3) 11, 213 (2) 49, 048 10, 577	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5 26. 3 24. 9	unem-ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 431 27, 012 29, 340 32, 078	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 256, 622 266, 027	unem-ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21: 38, 80 43, 27 48, 22 41, 51: 33, 48 28, 93: 22, 70: 22, 90: 28, 800 43, 91'
June	(2) (3) (4) (7) (9) (7) (9) (8) (19) (9) (19) (19) (19) (20) (19) (21) (31) (40) (50) (40) (50) (40) (50) (40) (50) (50) (60) (7) (84) (7) (7) (84) (84) (84) (84) (84) (84) (84) (84	unions) ployed Number 4,700 4,723 5,897 7,010 8,031 9,396 11,265 11,692 (2) 11,213 (2) 49,048 10,577 12,633 14,160	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5 26. 3 24. 9	unem-ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 431 27, 012 29, 340 32, 078	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 256, 622 266, 027	unem-ployed remaining on live register 22, 966 23, 230 24, 200 39, 110 36, 144 42, 688 36, 213 38, 80 43, 270 48, 221 41, 519 33, 488 22, 906 22, 700 22, 900 28, 800 43, 911 49, 393
June	(1) (2) (3) (4) (7) (4) (7) (9) (8) (19) (9) (8) (19) (9) (9) (9) (19) (19) (19) (19) (unions) ployed Number 4,700 4,723 5,897 7,010 8,031 9,396 11,265 11,692 (3) 11,213 (2) 49,048 10,577 12,633 14,160 14,354	10.8 10.8 10.8 13.4 15.7 18.0 21.4 25.5 26.3 24.9	unem-ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431 27, 012 29, 340 32, 078 34, 789	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 255, 622 266, 027 312, 487	unem-ployed remaining on live register 22, 966 23, 234 24, 205 39, 116 36, 14' 42, 686 36, 21; 38, 806 43, 276 48, 226 41, 518 33, 48* 28, 099 29, 256 22, 700 22, 900 28, 800 43, 917 49, 393
June	(2) (3) (4) (7) (5) (7) (7) (8) (8) (19) (8) (19) (9) (19) (19) (19) (19) (20) (31) (40) (50) (40) (50) (40) (50) (40) (50) (50) (60) (7) (7) (80) (80) (80) (10) (10) (10) (10) (10) (10) (10) (1	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (3) 11, 213 (2) 49, 048 10, 577 12, 633 14, 160 14, 354 15, 342	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5 26. 3 24. 9 419. 6 22. 8 27. 2 30. 4 30. 6 32. 5	unem-ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 22, 736 22, 736 22, 736 22, 736 22, 736 32, 778 34, 789 35, 034 38, 135 38, 952	unem- ployed registered with em- ployment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 255, 622 266, 027 312, 487 338, 434 350, 145 360, 031	unem-ployed remaining on live register 22, 966 23, 236 24, 200 39, 110 36, 14' 42, 686 36, 213 38, 806 43, 27(48, 22(41, 51) 33, 486 28, 096 29, 25(22, 906 28, 806 43, 917 49, 393 51, 612 57, 606
June July August September October December 1931 January February March April May July August September October November December 1932 January February March April August September October November December December 1932 January February March April	(2) (3) (4) (7) (7) (7) (8) (19) (8) (19) (9) (19) (19) (19) (19) (20) (3) (3) (40) (507) (45) (50) (60) (7) (7) (7) (8) (8) (10) (10) (10) (10) (10) (10) (10) (10	unions) ployed Number 4,700 4,723 5,897 7,010 8,031 9,396 11,265 11,692 (3) 11,213 (2) 49,048 10,577 12,633 14,160 14,354	10.8 10.8 10.8 13.4 15.7 18.0 21.4 25.5 26.3 24.9	unem-ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 364 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431 27, 012 29, 340 32, 078 34, 789 35, 034 38, 335 38, 962 37, 703	unem-ployed registered with employment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 169 246, 426 255, 622 266, 027 312, 487 338, 434 350, 145 360, 031 339, 773	unem-ployed remaining on live register 22, 966 23, 230 24, 200 39, 110 36, 141 42, 683 36, 212 38, 800 43, 270 48, 224 41, 519 33, 484 22, 908 22, 909 22, 909 22, 800 24, 907 49, 392 51, 612 57, 600
June	(1) (2) (3) (4) (7) (4) (7) (9) (8) (19) (9) (19) (19) (19) (20) (3) (3) (40) (40) (50) (40) (50) (40) (50) (40) (50) (60) (7) (7) (80) (80) (90) (90) (90) (10) (10) (10) (10) (10) (10) (10) (1	unions) ployed Number 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (3) 11, 213 (2) 49, 048 10, 577 12, 633 14, 160 14, 354 15, 342	10. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5 26. 3 24. 9 419. 6 22. 8 27. 2 30. 4 30. 6 32. 5	unem-ployed remaining on live register 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157 28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 22, 736 22, 736 22, 736 22, 736 22, 736 32, 778 34, 789 35, 034 38, 135 38, 952	unem-ployed registered with employment offices 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 169 246, 380 246, 426 255, 622 266, 027 312, 487 338, 434 350, 145 360, 031 339, 773	unem-ployed remaining on live register 22, 96 23, 23 24, 20 39, 11 36, 14 42, 68 36, 21 38, 80 43, 27 48, 22 41, 51 41, 51 41, 51 41, 51 41, 51 41, 51 41, 51 61 57, 60

Ju Ju Sei Oct No

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See footnotes at end of table.

STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES-Continued

	Saar Ter- ritory	Swed	en	anang shi dashing	Switze	erland		Yugo- slavia
	01/4	inem- oloyed		Un	Tentantes Ton Ton			
Date (end of month)	Number unem- ployed registered			Wholly unem- ployed		Partially unemployed		Number of unem- ployed registered
madelinol	registered	Number	Percent	Number	Percent	Number	Percent	registered
1930		No.		11210	r i i i i	1		
June	6, 330	28, 956	8.1	5, 368	1.7	17, 688	5.7	6, 991
July	7,095	27, 170	7. 8 8. 1	4, 751 5, 703	1.9 2.3	15, 112 19, 441	6. 2 7. 9	7, 236
August	7, 527	28, 539 34, 963	9.8	7, 792	2.5	26, 111	8.3	6, 111 5, 973
September October	9,013	43, 927	12. 2	7, 399	3.0	23, 309	9.4	6, 609
November	12, 110	57, 070	15. 3	11,666	4.7	25, 793	10. 5	7, 219
December	15, 245	86, 042	22.9	21, 400	6.6	33, 483	10. 4	9, 989
1931	100-2007	Sur. 11.		a detail	-117876			
Inniiary	i8, 921	69, 437	19.8	20, 551	8.3	30, 977	12.5	11, 903
February	20, 139	66, 923	18. 4	20,081	7.9	30, 879	12, 2	14, 424
March	18, 292	72, 944	19.3	18, 991	5.4	41, 880	12.4	12, 029
April	18, 102	64, 534 49, 807	17. 5 13. 2	10, 389 9, 174	4.0	27, 726 26, 058	10. 6 9. 9	11, 391
May June	14, 886	45, 839	12.1	12, 577	3.6	34, 266	9.7	6, 929 4, 431
June July	17, 685	46, 180	12.4	12, 200	3. 3	39, 000	11.3	6, 672
August	20, 205	48, 590	12.7	9, 754	3.6	33, 346	12, 4	7, 466
September	21, 741	54, 405	13. 7	15, 188	4.0	42, 998	11. 2	7, 75
October	24, 685	65, 469	16. 4	18,000	4.8	47, 200	13. 2	10, 070
November	28, 659	79, 484	19.9	25, 200	6.6	51, 900	14.4	10, 349
December	35, 045	110, 149	27. 2	41,611	10.1	61, 256	14.9	14, 502
1932				44.000		Am 25.5	1	I Dad
January	38, 790	93, 272	24. 5	44, 600	10.6	67, 600	14.8	19, 662
February		93, 900	23.0	48, 600	11.3	70, 100	15.0	21, 435
March		98, 772 82, 500	24. 4 21. 0	40, 423 35, 400	9. 0 7. 7	62, 659 58, 900	14.0 12.6	23, 251
April May	42, 993 42, 881	75, 650	18.9	35, 200	7.6	08, 900	12.0	18,532
way	42, 881	10,000	19. 0	35, 200	1.0			13, 56

¹Sources: League of Nations—Monthly Bulletin of Statistics; International Labor Office—International Labor Review; Canada—Labor Gazette; Great Britain—Ministry of Labor Gazette; Austria—Statistische Nachrichten; Australia—Quarterly Summary of Australian Statistics; Germany—Reichsarbeitsblatt, Reichs Arbeitsmarkt Anzeiger; Switzerland—Wirt. u. Social, Mitteilungen, La Vie Economique; Poland—Wiedomosei Statystyczne; Norway—Statistiske Meddelelser; Netherlands—Maandschrift; Sweden—Sociala Meddelanden; Denmark—Statistiske Efterretninger; Finland—Bank of Finland Monthly Bulletin; France—Bulletin du Marché du Travail; Hungary—Magyar Statisztikai Szemle; Belgium—Revue du Travail; New Zealand—Monthly Abstract of Statistics; U. S. Department of Commerce—Commerce Reports and U. S. Consular Reports.

Not reported.
New series of statistics showing unemployed registered by the employment exchanges. Includes not only workers wholly unemployed but also those intermittently employed.

Strike ended.

Land Settlement as Unemployment Relief in British Columbia¹

AS AN aid in relieving unemployment British Columbia is preparing to put into early operation a plan of land settlement, with the assistance of the Dominion, provincial, and municipal governments.

In the ranks of the thousands of unemployed now receiving direct (cash and food) relief from public funds in British Columbia are many married men who, attracted in recent years by the promise of high wages and the apparent advantages of city life, have deserted the farms. It is now intended to afford these men with agricultural experience an opportunity to return to their former occupations under circumstances calculated to improve their present condition and morale as well as to assist in solving the problem of unemployment relief in the larger centers of population.

Report from Harold S. Tewell, American Consul at Vancouver, B. C., May 28, 1932.

The plan contains the following salient features: Only unemployed married men are eligible, and will be selected by a nonpolitical board already appointed for that purpose, selection to be made on the basis of experience in farming and the desire to return to that occupation. Settlement will be made in agricultural areas convenient to markets

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and already provided with roads and schools.

Land available for the purpose includes extensive areas of public domain as well as partially improved acreage that has reverted to the provincial and municipal governments because of nonpayment of Since 1918, it is said, 2,654,321 acres of farm lands have come into the possession of the provincial government through failure to pay taxes, and of that total 2,000,000 acres are said to consist of parcels of 40 or more acres. In one municipality near Vancouver almost one-third of the land is said to be nontaxable, being held by the Government, leaving the remaining two-thirds to bear the burden of taxation in that municipality. The present plan therefore not only is a measure of unemployment relief, but will ultimately relieve the taxpayers by increasing the extent of revenue-producing lands as settlers become established. But should any family of settlers fail for any reason to establish itself successfully on the land, the Government would not wholly lose thereby, since the property will have been materially improved by the last settler and made salable to farmers having financial resources.

The first tracts to be opened to settlement under this scheme consist of 5,000 small parcels near Vancouver, the principal market in British Columbia. Numerous applications are said to have been received for such lands; owing to the limited portion of available unemployment relief funds that may be devoted to that purpose, however, it is said to be probable that not more than 600 to 700 families can be accommodated this year. Although apparently it is not the purpose to donate these lands to the unemployed, no payments of any description will be required for the time being. It has been suggested that, as conditions improve, the settlers might be offered the opportunity to purchase on easy terms the property they

occupy, at its assessed value.

The Dominion Government has indicated its willingness to assist by advancing to each settler \$200 cash, with the stipulation that it shall be expended only for equipment and the immediate needs of the family. Similar contributions are to be made by the provincial government and by the municipality concerned, the latter to be

spread over a period of two years.

It is expected that by the end of two years most of the families will to a large extent be self-supporting; meanwhile they will not have cost the public treasuries any more than if they had remained on direct relief in the cities. In any event, rather than add to the thousands of unemployed now housed in various camps throughout British Columbia, the provincial government has adopted the practice of supplementing with supplies the deficiency in income of poor rural settlers, and urging them to put in a crop this year.

Revival of Interest in Farming

THERE is said to be a steady demand for cleared agricultural land in British Columbia; that is, former timberlands from which stumps and the heavy growth of brush have been removed. It is said that

in these times the average farmer is financially unable to undertake the expense of clearing in the first year space sufficient to raise a crop upon which he can live until the second year. As an experiment the Government provided work for a number of unemployed in clearing 1,600 acres in the Fraser River Valley, half of which is

reported to have been sold in 32 plots.

The increasing interest in farming, despite the low prices of agricultural products, is evident in recent reports on the preemptions filed in the Peace River Block in northeastern British Columbia. Since August 1, 1930, when the area was first opened to claim stakers, 300,000 acres are said to have been taken up by 2,500 families, and in the week ending May 14, when the district was closed to preemption, 250 tracts of approximately 10,000 acres are reported to have been taken. Hereafter all lands in that district must be purchased at prices varying from \$2.50 to \$5 per acre and it is only upon those terms that unemployed single men may acquire public farm lands anywhere in British Columbia.

Camp Life for Unemployed Men in Great Britain

HE Manchester Guardian, in its issue for July 1, 1932, gives a brief account of a plan for utilizing the enforced leisure of the unemployed which is now being initiated. The plan is backed by an educational and social organization which has opened at Godshill, on the edge of the New Forest, the first of a series of camps for unemployed young men, and has assembled here about 30 men, between the ages of 18 and 25, who are to stay for a period of 18 months. These, who are not from the ranks of the unemployed, are to be the leaders and organizers of the whole movement. The Guardian gives the following summary of the plan:

The future campers will maintain themselves either by paying a pound weekly or, in the case of insured persons, by handing over their unemployed benefit or transitional payment. Sleeping quarters have been built from timber on the site, which has been obtained at a nominal rental, and a plot of land for vegetable

growing is being brought into cultivation.

The general idea is to give to young men out of work a healthy and productive life in which they will be providing largely for their own wants in food, clothing, and recreation. These men after their experience in camp should be in a position to return to industry refreshed instead of demoralized. At all events, their life, while technically unemployed, will be vigorous and useful. The project is being carried out in close collaboration with the Ministry of Labor, which has agreed to pay unemployment and transitional benefit to the men in camp. The men now at Godshill are drawn from many occupations. They are both manual workers and what are known as "black-coated" workers.

Some £300 has been subscribed by sympathizers, but more contributions are needed for the provision of equipment in readiness for the winter in this and other camps of the kind which it is hoped to start in different parts of the country as

suitable land at a sufficiently cheap rate can be secured.

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Industrial Injuries in California, 1931

THE June report of the California Department of Industrial Relations announces the completion by the industrial accident commission of its statistical survey of fatal and nonfatal injuries in the

industries of the State during 1931.

Reports were received of 477 fatalities, 748 injuries resulting in permanent impairment of at least 1 per cent, 68,851 resulting in temporary disability extending beyond the day of injury, and 160,439 not causing loss of time but requiring skilled medical treatment, making a total of 230,515 injuries for the year.

Compared with 1930, the figures show decreases of 25.1 per cent for fatalities, 12.4 per cent for permanent disabilities, 14.5 per cent for temporary disabilities, and 15.3 per cent for nondisabling injuries. It is pointed out that the comparatively low accident record is to be

expected as an outcome of economic conditions.

It was found that 76 of the 477 deaths occurred in public utilities, 50 in engineering construction, 45 in agriculture, 44 in cartage and storage, 37 in building construction, 32 in care and custody, 31 in railroad operation, 28 in clerical and professional, 23 in commercial enterprises, 21 in oil production, 19 in mining and milling, 16 in lumber and wood manufacturing, and 10 each in food and beverages manufacturing and chemical manufacturing. The other 35 deaths occurred in 11 different industries.

The principal causes of death were vehicles, 170; falls of persons, 65; falling objects, 63; machinery, 47; hot, poisonous, and corrosive substances and flames, 29; and explosions and electricity, 25 each.

The lumber and wood manufacturing group is charged with 119 of the permanent injuries, while the number incurred in commercial enterprises, metal working, foods and beverages manufacturing, agriculture, and building construction range between 50 and 60. Agriculture was responsible for 8,912 of the temporary injuries, commercial enterprises for 8,553, building construction for 7,066, care and custody for 6,121, foods and beverages manufacturing for 5,289, cartage and storage for 5,015. None of the other industrial groups exceeded 5,000.

The main cause of the permanent injuries was machinery, charged with 436 of these, and the other causes were below the 60 mark, while the principal cause of the temporary injuries was handling of objects, with 14,517, followed by falls of persons, with 12,147. None of the

other causes showed above 10,000.

Fatal Accidents in Kansas, 1931

A SUMMARY of accidental deaths in Kansas during 1931, furnished by the Kansas State Board of Health, shows that only 11 of the industrial fatalities originated in connection with manufacturing industries. Building and contracting were charged with 12 deaths; public utilities and railroads with 33 deaths; mining, quarry-

ing, and other extractive industries with 27 deaths; but these industries were completely overshadowed by the 95 deaths originating in connection with farm work. This would indicate that farm work was responsible for 41.9 per cent of the 227 deaths due to occupational accidents or for 6.4 per cent of all accidental deaths in the State

(1,488) during the year.

An accompanying analysis of 95 deaths originating in connection with farm work showed that injuries received from farm machinery were responsible for the largest number listed under one cause, a total of 22. Of this total, 9 accidents occurred in connection with the operation or handling of tractors; 2 each in connection with combines, plows, and corn binders; and 1 each in connection with a corn cutter, mowing machine, wheat header, hay stacker, hay fork, windmill, or circular saw.

Fifteen of the persons who died as a result of injuries from farm machinery averaged 129 days from the day of injury to the day of death, and 10 of the deaths occurred on the same day the injury was received.

Excessive heat caused 19 deaths, while injuries from animals were responsible for 9 of the fatalities, 5 being caused by being "gored or butted by a bull," and 2 by being kicked by a horse. Falls on the level and falls from ladders or other elevations aside from machines were also responsible for 9 deaths.

Causes shown for the other minor groups include runaway horse-drawn wagon, and lightning, 7 each; falls from animals or moving vehicles, 6; accidental punctures causing septicemia, 5; falling trees, 4; accidental burns 3; and 1 each for excessive cold, poisoning, electricity,

and miscellaneous.

The total of accidental deaths for 1931 is stated to be the third highest in Kansas for any 12-month period. It amounts to 7.9 per cent of all deaths and established a death rate from accidents at 78.8 per 100,000 population.

The following table shows the total number of fatal accidents in

the State in 1931, by type of accident.

NUMBER OF ACCIDENTAL FATALITIES IN KANSAS IN 1931, BY TYPE OF ACCIDENT

Type of accident	Num- ber	Type of accident	Num- ber
Industrial: Manufacturing	11	Public, not motor vehicle—Continued.	
Public utilities and railroads	33	Other vehicle.	1
Building and contracting	12	Water	9
Mining quarrying and other extrac-		Airplane	20
Mining, quarrying, and other extrac- tive industries	27	Falls	33
Farming	95	Burns, scalds, and explosions	1
Others.	49	Drowning	68
Total		Firearms	28
Total	227	Others	61
Motor vehicles:	77777	Total	282
Motor vehicles: Collision with pedestrian	87	The state of the s	
Collision with motor vehicle	122	Home:	
Collision with railroad train	51	Falls	262
Collision with electric car	3	Burns, scalds, and explosions	82
Collision with bicycle	. 3	Asphyxiation and suffocation	13
Collision with horse-drawn vehicle	3	Poisons	18
Collision with fixed object	28	Cuts and scratches	49
Collision with road grader.	172	Others	85
Nonoperating accidents	112	Total	509
Total	470		000
A VIII	110	Grand total	1, 488
Public, not motor vehicle:			-, -00
Railroad	58	of thoughts stoffer wone to d	1301

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Industrial Accidents to Minors in Illinois in 1931

THE April, 1932, issue of the Labor Bulletin, published by the Illinois Department of Labor, presents a summary of injuries to minors under 18 years of age employed in Illinois. Most of the cases included in the summary are those of minors injured since July 1, 1927, the date of effectiveness of the law providing for 50 per cent additional compensation in case of minors injured while illegally employed.

The total number of industrial accidents to minors under 18 years of age reported during 1931 was 432, of which 412 involved the loss of more than six working-days or some injury which, if it came under the compensation act, would be compensable. There were 64 accidents to children under 16 years of age. The first case of permanent total disability resulting from an industrial accident to a minor under 18 years of age during the 6-year period covered by this study was reported in 1931.

The following table shows the industries in which these children under 16 years were injured, and the extent of the disability involved.

NUMBER OF ACCIDENTS IN 1931 TO MINORS UNDER 16, LEGALLY OR ILLEGALLY EMPLOYED, IN ILLINOIS, BY INDUSTRY AND EXTENT OF DISABILITY

		or of accid	
Industry and extent of disability	Legally em- ployed	Illegal- ly em- ployed	Total
Industry:			
Agriculture		0	1
Manufacturing		17	24
Construction		3	4
Communication		21	21
Services not otherwise classified		5	10
Governmental services		3	10
Industry not reported		0	î
Total	17	47	64
Extent of disability:			
Fatal	0	4	4
Permanent partial		12	14
Disfigurement		1	2
Temporary	14	29	43
Loss of 6 working-days or less	0	1	1
Total	17	47	64

Compensation Cases of Minors in Wisconsin Closed in 1931

STATISTICS of compensable injuries to minors in Wisconsin are presented in Wisconsin Labor Statistics, May, 1932 (Bulletin No. 38), which is devoted to the subject of child labor in the State during 1931.

Under the employment regulations of Wisconsin, labor permits may be issued by the industrial commission to children under 17 years of age, allowing them to work (except in certain employments, which are prohibited because of their hazardous character), and the employment of such minors without permits is illegal. Permits are not required for minors between 17 and 21 years of age, but their employ-

ment in certain occupations is illegal.

The State compensation act provides that a minor of permit age who is injured while employed without a labor permit in otherwise lawful employment is entitled to double indemnity. A minor injured while employed in a prohibited occupation is entitled to triple indemnity. The increased liability can not be insured, and is consequently paid by the employer instead of by the insurance carrier. This provision discourages the illegal employment of minors and also secures to the claimant practically the amount of the indemnity which would ordinarily be recovered at common law, but without the delay involved under that procedure.

The number of cases in which the increased compensation was claimed, and the difference in cost to the respective employers, by

calendar years, from 1921 to 1931, are shown in Table 1.

Table 1.—INCREASED COMPENSATION PAID FOR INJURIES TO MINORS ILLEGALLY EMPLOYED IN WISCONSIN, 1921 TO 1931

	Number of cases			Amount of compensation		
Year	Em- ployed without permit	Em- ployed in pro- hibited work	Total	Normal	Penalty	
1921	. 86	11 10	97		\$24, 499. 37	
1922	- 65	10	75	\$6, 135. 00	12, 387. 46	
1923	63 73	6	69	9, 781. 79 15, 214. 44	19, 640, 24 30, 604, 50	
1924 1925		14 7	87 57	5, 805. 76	11, 596, 3	
926	49	17	66	12, 839, 17	22, 434, 24	
927	_ 30	17 15	45	11, 110, 82	16, 112, 49	
928		20	53	7, 593. 86	9, 653. 9	
929	_ 26	13	39	9, 192. 85	10, 057. 6	
930	. 31	9 5	40 17	8, 914, 99	13, 634, 63	

Table 2 shows the number of compensable cases closed during the year, by extent of injury, time cost, and money cost, classified according to age of the injured minor.

TABLE 2.—COMPENSATION CASES OF MINORS IN WISCONSIN CLOSED DURING 1931, TIME LOST, AND BENEFITS PAID, BY AGE OF INJURED

bus and problem		Number	of cases			Total I		al aid in cases 1	Decad Decad
Age	Death	Perma- nent partial disa- bility	Tem- porary disa- bility	Total	Number of days lost	Total compen- sation paid	Num- ber of cases	Amount paid	Funeral ex- penses
12 years	0 0 0 1 0 3 0 5 4	0 0 0 1 3 6 41 34 29	1 3 6 15 32 102 253 416 407	1 3 6 17 35 111 294 455 440	36 40 272 1, 596 4, 619 11, 293 31, 402 59, 085 35, 979	\$41 37 365 6,037 6,551 15,394 39,776 48,302 42,649	1 3 6 17 33 104 286 430 420	\$35 103 831 1, 247 2, 930 7, 176 14, 201 21, 704 20, 902	\$200 1,000 400
Total	13	114	1, 235	1, 362	144, 322	159, 152	1,300	69, 129	1,600

¹ Contract medical aid cases not included.

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Nevada Mine Safety Law Held Not Applicable to Work on Hoover Dam

ACCORDING to a decision of the United States District Court, Nevada District, the lives and health of the employees engaged in the construction of Hoover Dam are not endangered by the use of gasoline motor trucks in tunneling operations and therefore the court issued a temporary injunction restraining the State mine inspector from attempting to enforce the Nevada safety law, prohibiting the use of such trucks in tunnels under construction on that project.

(Six Companies (Inc.) v. Stinson, 58 Fed. (2d) 649.)

The Six Companies (Inc.) secured the contract with the United States for the construction of Hoover Dam. In order to divert the flow of the stream from its normal bed it was necessary to dig four tunnels about 4,000 feet long and 56 feet in diameter, two on the Arizona side of the river and two on the Nevada side. Stinson, inspector of mines of Nevada, ordered the construction company to cease using gasoline-propelled trucks in removing the rock and dirt from the tunnels on the Nevada side, contending that the use of such trucks violated section 4229 of the Nevada Compiled Laws, The question was carried to the district court by the company 1929. and upon the filing of the complaint, on November 13, 1931, a preliminary restraining order was issued restraining the State mine inspector from interfering. The order was continued in force and a motion for a temporary injunction was submitted to the court in April, 1932.

In support of this motion the construction company contended that the State of Nevada is without jurisdiction to enforce laws in this area, as it had been ceded by the State to the Federal Government; that the law the State mine inspector attempted to enforce is void because it amends another statute without reenacting and publishing the statute as required by article 4 of the State constitution, and because it violates the fourteenth amendment to the Federal Constitution; and lastly, that the construction company "in performing its contract is an instrumentality of the United States, and hence not

subject to State police regulations."

Stinson challenged these allegations and further contended that the action was in effect one against the State and therefore the district

court was without jurisdiction.

The court, before considering the statute itself, settled the jurisdictional question by quoting from the case of Truax v. Raich (239 U. S. 33) as follows:

As the bill is framed upon the theory that the act is unconstitutional, and that the defendants, who are public officers concerned with the enforcement of the laws of the State, are about to proceed wrongfully to the complainant's injury

through interference with his employment, it is established that the suit can not be regarded as one against the State.

Judge Norcross, speaking for the court, said that the questions involving the validity of the reservations, the constitutionality of the act, and the relinquishment of jurisdiction by the State should not be determined upon a preliminary hearing; the court therefore, in determining whether the temporary injunction should be granted, weighed the interests involved. It appeared that the injury to the construction company would be certain and irreparable if the injunction were denied, as the company had alleged a large investment in the gasoline-propelled trucks and a great increase in expenses and a loss in time, should their use be discontinued. The company also contended that the use of such trucks did not endanger the lives and imperil the health of its employees, and that a statute requiring it to adopt some other means would "be in effect depriving it of its property without due process of law."

At the time of this hearing the court found the tunnels were about completed and "the possibility of serious danger from an accidental interruption of the ventilation system as extremely remote." The only work remaining to be done was the excavation in the floor of the tunnel known as the "invert." There also remained some rock on the walls of the tunnel to be removed and it was the desire of the company to remove the excavated material by the use of the gasoline-propelled trucks. In concluding the opinion granting the temporary

injunction the court said:

The question, as the court is now called upon to deal with it, is the danger, if any, which exists in using gasoline-propelled trucks in further enlarging a completed tunnel the height and width of which now average approximately 40 feet. We do not understand that there is any contention that such danger longer exists.

Compensation Insurance Rating Based on Individual Accident Experience Upheld in Ohio

HE Supreme Court of Ohio has held that the State industrial L commission was justified in imposing on an employer a premium rate exceeding that prevailing in the same industry but based on the accident experience of the individual employer. (State ex rel. Powhatan Mining Co. v. Industrial Commission of Ohio et al., 181 N. E. Under the provisions of section 1465-54, paragraph 4, of the Ohio General Code, the industrial commission is empowered to apply a form of merit rating system which it considers most equitable, predicated upon the basis of the individual industrial accident experience. Acting under this authority, the industrial commission imposed upon the Powhatan Mining Co. a premium rate higher than the basic rate for the coal-mining industry. The company contended that neither the constitution of the State nor any statute gave the commission authority for this action. The rating system, it insisted, was required to be imposed upon occupation groups according to their degree of hazard and could not be applied to separate individual employers composing the class.

The brief filed by the counsel for the coal company cited the constitution as empowering the legislature "to authorize the industrial commission to fix rates of contribution by employers to the State

insurance fund according to the classification of industry. It clearly does not authorize the establishment of a rate in addition thereto

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based upon the individual experience of an employer."

The Supreme Court of the State of Ohio, however, speaking through Justice Jones, stated that in its opinion the legislative authority conferred was far more comprehensive than such a construction of the constitution would allow. It was evident, the court said, that the purpose of the constitutional provision was to provide compensation for workmen and to establish a State fund insurance created by compulsory contributions from the employer and to be administered by the State, and the State in addition was empowered to determine the terms and conditions upon which payment should be made from such fund. The court also cited that part of the constitutional provision relative to the point under consideration, and in doing so noted that the legislature had authority to classify, not industries or groups in industries, but "all occupations according to their degree of hazard." There is no doubt, the court observed, that the legislature could apply a rating system to groups of employers if it so desired. but there was no language in the constitution prohibiting the legisture from departing from the group classification if it was determined at any time that the group system was inequitable or unwise. The legislative authority to "classify all occupations," the court said:

Comprehends a classification of each and every occupation according to the degree of hazard affecting the individual occupation engaged in by an employer. The various provisions of the constitution connote that meaning; their underlying spirit contemplates a purpose not only to provide compensation to workmen and their dependents, but to preserve, as far as possible, the factor of safety in the conduct of an employer's particular business, and to prevent loss of life and injuries to his employees. That this was the purpose of the constitution was shown by the following significant clause: "Such board shall set aside as a separate fund such proportion of the contributions paid by the employers as in its judgment may be necessary, * * * to be expended by such board * * * for the investigation and prevention of industrial accidents and diseases."

The court, in rendering its opinion, gave a brief history of the nature and purpose of the State fund and stated that—

Those employers who, in the language of the statute, do "encourage and stimulate accident prevention," are naturally interested that the fund shall not be depleted, thereby entailing heavier contributions on their part. It would be inequitable to impose upon the careful employer not only an amount of premium sufficient to cover his own individual risk, but also an additional premium necessary to pay for heavy casualties sustained by other less careful employers. There are some individual employers in a group of similar occupations who are more diligent than others in the conduct of their particular plant operation, and in the prevention of accidents, and by such conduct impose a lesser burden upon the State insurance fund.

The court reverted to the history of the legislative powers derived from the State constitution. In the early years following the adoption of the constitution the legislature, acting under its general police powers, confined the classification to groups of industries conducting similar businesses, and established a system of rating for such groups. On the basis of further experience it later made the provision authorizing application of the rating system on a more equitable basis of classification, i. e., on the basis of the "individual accident experience."

This language, the court held, was "clear and explicit."

It was pointed out that the classification employed by the commission embraced two classes, both based upon the accident experience: (1) Those employers who carry on their operations with care,

and (2) those who, although they may be in the same group, so carelessly manage their individual businesses as to cause a higher percentage of injuries to their employees. The merit of this classification is that it assures that employers shall pay into the State fund an amount of premium that will substantially cover their own individual risks, but it does not impose upon the careful employer the additional burden of paying a further and higher premium rate to cover risks incurred in a similar business not operated with the same degree of care. The court answered the argument advanced by the company, namely, that employers in the latter class are sufficiently penalized by the imposition of additional awards for failure to comply with specific requirements, by saying that this does not always meet the situation, since a particular business may be conducted unskillfully where no such requirements have been authorized.

The court was of the opinion that the legislature had adopted a reasonable basis for classification of individual occupations according to their degree of hazard, by basing its action upon individual accident experience, and that the provision (sec. 1465-54, par. 4) was not opposed to either the Federal or State constitutions, since the classification was neither unreasonable nor arbitrary. The basis of this classification, the court held, has been sustained both by State and Federal courts; and it cited the two following decisions by the United

States Supreme Court in substantiation of this contention.

In the case of Middleton v. Texas Power & Light Co. (249 U. S. 152), it was said: "There is a strong presumption that a legislature understands and correctly appreciates the needs of its own people, that its laws are directed to problems made manifest by experience, and that its discriminations are based upon adequate grounds," and in the case of Lindsley v. Natural Carbonic Gas Co. (220 U. S. 61), that—

A classification having some reasonable basis does not offend against that clause [the equal protection clause] merely because it is not made with mathematical nicety, or because in practice it results in some inequality. * * * When the classification in such a law is called in question, if any state of facts reasonably can be conceived that would sustain it, the existence of that state of facts at the time the law was enacted must be assumed.

The court therefore denied the writ which sought to prohibit the Ohio Industrial Commission from canceling the protection afforded to the coal-mining company under the State workmen's compensation act, and from imposing or assessing upon it any rate or premium paid to the State fund other than that applicable to the classification of the industry to which the coal-mining company belonged.

Recent Workmen's Compensation Reports

Illinois

STATISTICS of the experience under the workmen's compensation act of Illinois during 1929 are presented in the thirteenth annual report of the Illinois Department of Labor for the year ending June 30, 1930. The accident record and compensation payments are summarized in the two tables following. Table 1 shows the number of compensable fatal and nonfatal accidents reported to the administra-

tion, 1917 to 1929, while Table 2 shows the distribution by industrial groups for 1929.

TABLE 1.—COMPENSABLE FATAL AND NONFATAL ACCIDENTS IN ILLINOIS, 1917 TO 1929

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Marriage III III	Nun	iber of a	ecidents	plant and a land		Number of ac		
Year	Fatal	Non- fatal	Total	Year	Fatal	Non- fatal	Total	
1917 1918 1919 1920 1921 1922 1923	492 629 535 597 498 534 675	36, 268 37, 618 37, 754 49 988 43, 024 46, 238 61, 135	36, 760 38, 247 38, 289 50, 585 43, 522 46, 772 61, 810	1924 1925 1926 1927 1928 1929	655 204 (¹) 720 667 715	53, 529 51, 639 (1) 53, 263 54, 083 55, 452	54, 18 51, 84 57, 53 53, 98 54, 75 56, 16	

¹ Data not available.

TABLE 2.—FATAL AND NONFATAL ACCIDENTS IN ILLINOIS, BY INDUSTRY GROUPS, 1929

	Num	Number of accidents		the second of the second	Number of accidents			
Industry group	Fatal	Non- fatal	Total	Industry group	Fatal	Non- fatal	Total	
Agriculture	3 127	199 8, 153	202 8, 280	Trade and finance	47 10 22	5, 072 528 664	5, 119 538 680	
Manufacturing Construction Transportation and storage	200 141 74	24, 516 8, 366 3, 465	24, 716 8, 507 3, 539	sified Industry not reported	78 6	4, 043 153	4, 12 15	
Communication	7	293	300	Total, 1929	715	55, 452	- 56, 16	

Table 3 shows the number of compensable accident cases closed during 1929, regardless of the year in which they occurred, by extent of disability, the total amount of compensation paid for each class of disability, and the average amount per case.

At least 78.9 per cent of the total amount of compensation was paid for injuries resulting in death or permanent disability or disfigurement, although of the total number of accidents, 71.9 per cent resulted in temporary disability only.

TABLE 3.—COMPENSABLE ACCIDENT CASES IN ILLINOIS CLOSED DURING 1929 AND AMOUNT OF COMPENSATION PAID, BY EXTENT OF DISABILITY

Potent of Mark Blan	N	Amount of com	Amount of compensation paid		
Extent of disability	Number of cases	Total	Average per case		
FatalPermanent totalPermanent partial and disfigurement (with or without	606 14	\$1, 631, 510 61, 187	\$2, 692 4, 371		
temporary total) Temporary total only Temporary partial only Not otherwise classified 1 Not reported	14, 022 38, 796 322 628 2	6, 758, 934 1, 821, 575 18, 391 421, 878 355	482 47 57 672 178		
Total	54, 390	10, 713, 830	197		

¹ Includes combinations, such as temporary total combined with temporary partial.

Pennsylvania

An interesting comparison of the distribution of compensation benefits awarded during 1931 to industrial workers in Pennsylvania appeared in the April, 1932, issue of Labor and Industry, the official

publication of the Department of Labor and Industry.1

Less than 8 per cent of the total working population of the State are employed in the coal-mining industry, but the compensation cost during the year amounted to \$6,105,397, or 43.1 per cent of the total compensation cost for all industries. The second largest amount, \$3,460,222, or 24.4 per cent of all awards, was charged to the manufacturing industry, which employs about 33 per cent of the working population. The construction and contracting industry ranked third, with \$1,919,873, or 13.5 per cent of the total awards; it gives employment to about 7 per cent of the working population.

Table 4 shows the amount and per cent of compensation awards

for 1931, by industrial groups.

Table 4.—COMPENSATION AWARDED IN PENNSYLVANIA DURING 1931, BY INDUSTRIAL GROUPS

Industry	Amount of compensa- tion	Per cent of total cost
Coal mining.	\$6, 105, 397	43, 1
Manufacturing	3, 460, 222	24.4
Construction and contracting	1, 919, 873	13, 5
State and municipal	628, 497	4.4
Transportation and public utilities	611, 573	4.4
Trading	595, 816	4.2
Miscellaneous	567, 491	4.0
Quarrying and mining other than coal	207, 068	1.5
Hotels and restaurants	80, 616	.6
Total	14, 176, 553	100.0

An analysis by causes shows that 25.2 per cent of the total awards, or \$3,569,988, was due to injuries caused by falling objects. Falls of persons was responsible for 14.2 per cent, or \$2,011,594; cars and engines for 9.6 per cent, or \$1,367,073; handling objects for 9.2 per cent, or \$1,297,769; working machinery for 8 per cent, or \$1,141,040; and motor vehicles for 7.1 per cent, or \$1,007,471.

Wyoming

THE report of the Workmen's Compensation Department of Wyoming for the calendar year 1931 contains several tables covering the experience of the State industrial accident fund during the year.

The department received reports of 2,197 accidents, of which 26 were fatal, 48 caused permanent partial disability, 883 caused temporary total disability, and 1,240 involved medical service only. Coal mining, as the leading industry, paying 39.3 per cent of the total premiums received in 1931, was responsible for the largest number of accidents and a high degree of severity. It is charged with 15 fatalities, 18 permanent partial disabilities, and 412 temporary total disabilities, but with only 31 medical-aid cases. Road and street construction industry ranked second, both in number of accidents and in

¹ Other data relating to 1931 compensation in Pennsylvania were published in Labor Review for April and May, 1932.

premium payments, which were 11.2 per cent of the total. It is charged with 1 fatality, 6 permanent partial disabilities, 99 temporary disabilities, and 142 medical-aid cases.

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The fund shows a balance of \$578,698.63 on December 31, 1931, as against \$577,209.39 for the previous year, an increase of \$1,489.24. The total amount of premiums collected, including service and policing charge, was \$331,691.90 and the amount of administrative expense during the year was \$21,187.68, making the cost of administering the State fund 6.4 per cent of the premiums paid.

Table 5 shows the number of claims allowed during the year by the State courts and the total costs for these claims.

TABLE 5.—NUMBER OF CLAIMS AND AMOUNTS AWARDED UNDER WYOMING WORK.
MEN'S COMPENSATION ACT, 1931, BY EXTENT OF DISABILITY

Extent of disability	Number of cases	Compensation awarded	Amount of other awards	Total amount awarded
Death	550 74 396 1, 591	\$65, 430, 38 10, 454, 36 61, 922, 09 114, 751, 44	1 \$3, 300. 00	\$68, 730, 34 10, 454, 36 61, 922, 04 114, 751, 44
Total	2, 611	252, 558. 27	2 73, 296, 67	2 325, 854, 9

¹ Funeral expenses.
² Includes medical and hospital service, \$63,115.37; investigations and witness fees, \$6.881.30.

Manitoba

The report of the Workmen's Compensation Board of Manitoba, Canada, for 1931 reviews the experience under the workmen's compensation act for the calendar year 1931 and presents a detailed analysis of the final accident record for 1930.

The total number of accidents reported to the board by the various groups of employers during 1930 and 1931 is as follows:

TABLE 6.—ACCIDENTS REPORTED IN MANITOBA IN 1930 AND 1931 BY EMPLOYING GROUPS

or hose raps to) contributes	Number of	accidents
Group	1930	1931
Steam railways	1, 600 246	1, 114 340
City of Winnipeg General body of employers Winnipeg Electric Co	7, 380 129	369 5, 858 126
Dominion Government.	560	467
Total	10, 329	8, 274

The total figures show a decrease for 1931 of 19.9 per cent. The most marked decrease occurred in the operation of steam railways, where the reduction amounted to 30.4 per cent, while the general body of employers, which was responsible for more than 70.8 per cent of all reported accidents during 1931, experienced a decrease of of 20.6 per cent.

Fatal accidents showed a decrease of 21.2 per cent for 1931 as compared with 1930, a total of 41 fatalities being reported for 1931 against 52 for 1930.

Workmen's Compensation Legislation in Japan

THE scope of the provisions for compensation for industrial accidents, under the Japanese factory act of 1911, has been considerably broadened by recent legislation setting up a comprehensive workmen's compensation insurance system for Japan.

The workmen's compensation law of April 1, 1931, which became effective on that date, covers quarrying, public and private construction, transportation, and "any other dangerous works" or those specified by imperial ordinance as inimical to health. Employers in such enterprises are obliged to pay to injured employees or their legal representatives, compensation for injury, disease, or death resulting from the employment, according to the schedule of benefits promulgated in an ordinance of January 1, 1932.

Employers are obliged to insure their accident compensation risk in a Government workmen's compensation insurance fund provided for by the act. Premium rates are established in an enforcing ordi-

nance dated February 18, 1932.

U. S. Department of Commerce, Bureau of Foreign and Domestic Commerce, Commerce Reports Washington, Apr. 11, 1932, p. 113.

LABOR ORGANIZATIONS

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Business Activities of German Labor Unions 1

ACTIVITIES of the German labor unions may be divided into three main groups—political activities, improvement of labor

conditions, and business activities.

The business activities of German labor unions have in the course of time become many and varied, and in several fields of industry and trade more or less serious competition is offered to private enterprises. This situation is the result not of a one or two years' mushroom growth but of a steady expansion over a period of years. The unions have acquired business experience at the same time as they have fought for political power. Now they have both and are prepared to use them to fight any attempts to curb their activities. All indications point to the fact that the union leaders and the rank and file of members favor the continuation of the present policy of participation in business, and it is not likely to be abandoned but, on the contrary, carried even further.

Membership and Characteristics of German Trade-Unions

IN ORDER to understand better the nature and extent of their activities, especially in the business field, it is necessary to describe briefly

each chief group of unions.

The German Federation of Labor Unions (Allgemeiner Deutscher Gewerkschaftsband) is the leading national group of labor unions. At the end of 1930 it had 5,178,832 members, of whom 4,716,000 were wage earners and 462,263 were salaried employees. The federation is composed of 31 national unions, which together have 13,572 locals. Unions of wage earners predominate in the federation, and among the strongest of them is the Metal Workers' Union, with almost a million members. The more conservative salaried employees have not been attracted by the federation on account of its socialistic tendencies, and this explains their relatively small numerical rôle in the total membership of the federation.

The German Association of Labor Unions (Deutscher Gewerkschaftsbund) at the end of 1930 had 1,361,383 members, of whom 769,863 were wage earners and 591,520 were salaried employees. It is made up of 18 different national unions, with 6,013 locals. This association is generally spoken of as the "Christian Unions Association." It is not a close-knit union like the federation, but has more of the character of a loose federation of independent national labor unions. The principal union within its membership is the German National Union of Salaried Employees (Deutsch-Nationaler Handlungsgehilfenverband)

¹ Report by C. W. Gray, American vice consul at Berlin, dated June 13, 1932.

which has over 400,000 members and is one of the strongest and most

active unions of salaried employees in the country.

The Federation of German Workmen, Salaried and Civil Service Employees (Gewerkschaftsring deutscher Arbeiter- Angestellten- und Beamtenverbände) is made up of the Hirsch-Duncker unions, so called from the names of their founders. Its members at the beginning of 1931 numbered 596,673, of whom 198,175 were laborers and 398,498 were salaried employees; 22 national unions with 1,569 locals comprise its membership. Politically it is closely affiliated with the Democratic Party and has been able to send its head director to the Reichstag. The strength of the federation, which is a member of a new international labor union known as the International Association of Neutral Labor Unions, lies in the Association of Salaried Employees (Gewerkschaftsbund der Angestellten), which is a clerical employees' union with about 320,000 members.

There are nine national unions of workmen's councils (with 193,340 members, of whom 121,846 are workers and the rest are salaried employees). Of these, the Federation of Patriotic Workers (Reichsbund vaterländischer Arbeiter- und Werkvereine), with some 60,000 members, is the largest. These workmen's councils are made up of people who were not trade-unionists, and this form of organization is favored by

by open-shop employers.

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About 66,000 workmen, belonging to five national associations, comprise the rather weak communistic opposition association known as the Revolutionäre Gewerkschafts-Opposition. Individual members form the nucleus of communism in German factories.

Scope of Business Activities

It is not always easy to distinguish between the public service and commercial activities of the German labor unions. Enterprises conducted by them, however, which do have a definite, profit-making commercial character are quite numerous and consist largely of the following groups: Real estate, insurance, banking, printing and pub-

lishing, and construction and building.

Real estate.—It is estimated that the labor unions own between 150 and 200 headquarters buildings in Germany, of which the German Federation of Labor Unions alone controls 132. Some of these buildings, such as the headquarters of the federation in Berlin and the skyscraper of the German National Union of Salaried Employees in Hamburg, are magnificent structures and as lavishly furnished as those belonging to any big private business enterprise. The new administration building of the Metal Workers' Union in Berlin cost about 2,000,000 marks 2 (\$476,000). In one of the suburbs of Berlin the Union of the Neutral Clerical Employees owns an estate upon which it has built administrative offices and a block of apartment houses for the members, in addition to a hotel for young people. The German National Union of Salaried Employees bought an old castle in Thuringia and erected there a modern athletic field. addition to this, it owns more than 75 urban properties in some 50 German cities and about four or five buildings in foreign capitals.

Insurance.—As is well known, the vast majority of German workers and employees are included in the compulsory sickness insurance

² Conversions into United States currency on basis of mark at par = 23.8 cents.

system of the Federal Government. This limits the opportunities for private enterprises to enter this particular field of social insurance.

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However, in the case of insurance of a strictly commercial character, the Hirsch-Duncker, the Christian unions, and the socialistic German Federation of Labor Unions in the last decade have played a prominent rôle. The federation operates two insurance companies. The first is known as the People's Cooperative Insurance Stock Co. and it does life insurance business mainly. The insurance in force at the end of 1931 totaled 888,000,000 marks (\$211,344,000) as compared to 581,000,000 marks (\$138,278,000) at the end of 1928. This is a very satisfactory showing, especially when it is considered that the socialistic unions have far more workingmen than clerical employees and the workingman is not so apt as a salaried employee to take out a subsidiary policy. The other insurance company is known as the Self-help Fire & Property Insurance Stock Co., and its principal activities are in the field of fire and property insurance.

The German Association of Labor Unions and its member unions are very active in the insurance field. One of the prominent life insurance companies of the association is the German Life & Utility Insurance Stock Co., which on January 1, 1931, had policies in force totaling 246,000,000 marks (\$58,548,000). The other company of the association specializes in fire, automobile, and burglary insurance and is known as the German Life Insurance Stock Co. The previously mentioned German National Union of Salaried Employees, numerically strongest and politically most influential member of the German Association of Labor Unions, has organized a group of insurance companies known as the German Chain of Insurance Companies which dates back to the year 1913. The newer branches of the company were founded in 1924, 1926, and 1927, life insurance being the oldest. In 1929 the amount of life insurance in force was 306,000,000 marks (\$72,828,000) and in 1930 it was 347,000,000 marks (\$82,586,400). A remarkable success has been made by the sickness insurance branch of the German National Union of Salaried Employees known as the German Sickness Insurance Society, since it had only 14,395 policies in force in 1926, which number increased to 94,181 in 1930. During the same years the number of persons covered by these policies jumped from 29,506 to 172,493. Since this insurance is not participated in by members of the union, it is fairly obvious that the clients of the German Sickness Insurance Society consist largely of the middle-class people and Government officials. The fire, burglary, accident, and liability business of the insurance society is not so large and important as the life and sickness branches.

The life insurance company of the Hirsch-Duncker unions is an even more pronounced type of business establishment than similar companies of the other unions. It is known as the German World Life Insurance Stock Co., the shares of which are not entirely owned by the unions. Insurance policies in force amounted to 57,000,000 marks (\$13,566,000) in 1930, as compared to 53,000,000 marks (\$12,614,000) in 1929.

Banking.—Practically all of the labor unions operate savings departments which are noteworthy in that they compete not against private business but against the regular municipal savings banks. Although the latter in many cases are in the hands, or at least under

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the control, of socialist-minded city governments, the unions have established their own savings departments. On the whole, the latter have not been particularly successful, as the total deposits of the individual unions have rarely been higher than 50,000,000 marks (\$11,900,000). The German National Union of Salaried Employees stated in its 1930 report that the deposits of its members in the savings department amounted to nearly 50,000,000 marks (\$11,900,000). Since the union is represented in nearly every German city, the service offered by its savings department compares rather favorably with that of the large branch banks or the municipal savings banks. A number of the other labor unions have also smaller savings departments and banking institutions, but almost all of them are of little importance from the business standpoint. For instance, the National Farm Workers' Union (member of the Hirsch-Duncker Co. group) founded in 1923 a bank known as the German People's Banking Stock Co. and the railway workers founded in 1922 a bank called the German Trade Union Bank, both of which still exist.

Of far greater importance than the savings departments of the unions are the regular banks which they have founded and control. The largest of these is the Banking Stock Co. for Wage Earners, Salaried Employees, and Officials, popularly called the Labor Bank, which belongs to the German Federation of Labor Unions. It has branches in 20 of the large German cities and agents in 145 other towns, the total business in 1930 and 1931 being 3,000,000,000 marks (\$714,000,000). Its board of directors is largely made up of the high officials of the unions. In its business administrative council there are representatives of 21 different trade-unions. The leaders claim that the policy of the bank is conducted on sound business principles, and this statement seems to be justified since the bank weathered the financial storm of last July very well. It has purchased control of a mortgage bank in Hildesheim (Province of Hanover) known as the Hanover Land Credit Bank. This transaction aroused a great storm of protest, and critics of the Labor Bank held that the labor unions have little justifiable interest in the land-mortgage business. However, the directors of the bank thought otherwise.

The second largest labor bank is the German People's Banking Stock Co. founded by the German Association of Labor Unions, with 10 members on its board of directors representing the various unions. The bank's turnover in 1930 was 481,000,000 marks (\$114,478,000); it is not expected, however, that the 1931 report will be so favorable, since the Ruhr district, where the bank has its

main office (Essen), has been severely hit by the depression.

The third bank is known as the German Economy Bank and is a subsidiary of the Hirsch-Duncker group. Its board of directors is not so strictly controlled by the unions. In 1931 the turnover amounted to only 81,000,000 marks (\$19,278,000) and the dividend was passed after having remained at 8 per cent for the past seven years. Deposits dropped from 21,000,000 marks (\$4,998,000) to 17,000,000 marks (\$4,046,000) in 1931.

In close connection with other banking institutions, the national associations of labor unions, such as the German Federation of Labor Unions, etc., have organized their own auditing and accounting firms which are merely engaged in the examination and auditing of the

business establishments of the trade-unions.

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Publishing and printing.—In the early stages of their development the unions established large printing and publishing houses. This was for the reason that their work among the working classes was mainly carried on with the help of newspapers, magazines, pamphlets, etc., and they wanted to print and publish this material themselves to save profits which otherwise would have been made by private printers.

The German Federation of Labor Unions controls its own publishing and printing house in Berlin. Apparently this house has expanded its business far beyond the realms of the unions themselves, since it is reported to be engaged in real-estate operations, accounting and auditing, and even in banking. In its regular business the house publishes and prints trade-union literature, such as books, magazines, and several weeklies. In addition, it furnishes its members with two

well-known books per month.

The Hirsch-Duncker unions in 1928 purchased a printing house in Berlin which, according to reliable information, depends for about 75 per cent of its business on orders from outside of the unions. Another printing concern controlled by this group is the Berlin Sieben Stäbe Verlags und Druckerei G. m. b. H., which publishes mainly the union periodicals, as well as books considered worthy of the interest of the union members and apt to further their politico-economic aims.

The Christian unions control only one large newspaper, Der Deutsche, published in Berlin, and a few scientific, political, and economic periodicals. Due to their rather loose structure, these unions have not gone into the publishing business as much as the federation. Their sympathy with the existing order tends to explain the fact that its members largely read the ordinary daily and weekly newspapers. Agitation and propaganda are not characteristic of the Christian unions, and their demand for publicity and propaganda

literature of the political type is therefore not very great.

The German National Union of Salaried Employees controls a publishing and printing establishment in Hamburg under the name of Hanseatische Verlagsanstalt Aktiengesellschaft. It had a turnover in 1930 of 7,800,000 marks (\$1,856,400), having published in that year 34 books and several periodicals. In 1928 the Hanseatische Verlagsanstalt purchased the Munich publishing firm of Georg Muller Verlag Aktiengesellschaft, which publishes principally conservative books and does an annual business of over 8,000,000 marks (\$1,904,000). Finally, the union operates a monthly book service for its members somewhat similar to that of a well-known American company.

Construction and building.—The building activities of the unions began after the World War, and all three federal associations have entered the construction field through subsidiary companies controlled

by them.

The Gagfah (Gemeinnützige Aktiengesellschaft für Angestellten Heimstätten) is mainly controlled by the German National Union of Salaried Employees, but some of the shares are also owned by the socialistic and democratic clerical employees' unions. From 1918 until 1930 the Gagfah built 26,740 apartments in 255 German cities. The turnover in 1930 was 1,000,000,000 marks (\$238,000,000), a sum of considerable importance if compared with the turnover of private

construction firms. The capital has been progressively raised from 500,000 marks (\$119,000) until it is now 6,000,000 (\$1,428,000).

Another large building association is the Dewog (Deutsche Wohnungsfürsorge A. G. für Beamte, Angestellte und Arbeiter) and its subsidiary company, the Gehag (Gemeinnützige Heimstätten Spar- und Bau-Aktiengesellschaft), both of which are entirely controlled by the unions of the German Federation of Labor Unions. In 1929 the Gehag raised its capital to 1,000,000 marks (\$238,000) and in the same year the Dewog to 3,000,000 marks (\$714,000). Up to 1929, they had both built 20,000 apartments.

The Hirsch-Duncker unions are in the construction field with their Heimat, Gemeinnützige Bau- und Siedlungs-Aktiengesellschaft, which up to 1930 had constructed 10,294 apartments in some 44 German cities. The capital was raised in 1930 from 1,000,000 to 5,000,000

marks (\$238,000 to \$1,190,000).

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The active rôle of the labor unions in construction has aroused much protest from private firms, and the whole question has furnished

much fuel to the German political fire.

Miscellaneous activities.—There are a number of industries and trades in which the German labor unions have taken some interest, but they are of such small importance financially that they are not mentioned here. It may be of interest, however, to state that the German Federation of Labor Unions is reported to own a bicycle factory, an office equipment and stationery manufacturing firm, and to be interested in automobile service stations.

INDUSTRIAL DISPUTES

Strikes and Lockouts in the United States in June, 1932

DATA regarding industrial disputes in the United States for June, 1932, with comparable data for preceding months are presented below. Disputes involving fewer than six workers and lasting less

than one day have been omitted.

Table 1 shows the number of disputes beginning in 1927, 1928, 1929, 1930, and 1931, the number of workers involved and man-days lost for these years and for each of the months, January, 1930, to June, 1932, inclusive, as well as the number of disputes in effect at the end of each month and the number of workers involved. The number of man-days lost as given in the last column of the table refers to the estimated number of working-days lost by workers involved in disputes which were in progress during the month or year specified.

TABLE 1.—INDUSTRIAL DISPUTES BEGINNING IN AND IN EFFECT AT END OF EACH MONTH, JANUARY, 1930, TO JUNE, 1932, AND TOTAL NUMBER OF DISPUTES, WORKERS, AND MAN-DAYS LOST IN THE YEARS, 1927 TO 1931

	Number	of disputes	Number of volved in	workers indisputes	Number of man-days lost in
Month and year	Beginning in month or year	In effect at end of month	Beginning in month or year	In effect at end of month	disputes existing in month or year
1927: Total 1928: Total 1929: Total 1930: Total 1931: Total	734 629 903 653 894		349, 434 357, 145 230, 463 158, 114 279, 299		37, 799, 394 31, 556, 947 9, 975, 213 2, 730, 368 6, 386, 183
January February March April May June July August September October November December	52 49 64 66 59 78 51	21 40 38 41 29 34 30 33 44 36 29 7	9, 240 37, 480 15, 017 6, 379 9, 329 14, 011 14, 308 15, 902 16, 337 10, 858 4, 390 4, 863	5, 316 6, 683 5, 957 5, 840 4, 386 8, 311 4, 815 7, 131 13, 778 16, 007 7, 759 5, 144	184, 730 438, 570 291, 127 189, 828 185, 448 144, 117 141, 647 142, 738 20b, 184 335, 916 273, 608 194, 455
January February March April May June July August September October November December	57 52 49 73 115 90 73 79 117 77 62 50	19 29 26 39 46 47 51 36 65 45 39	10, 150 20, 473 26, 453 27, 135 28, 000 18, 795 49, 434 11, 019 36, 092 34, 384 13, 219 4, 145	2, 905 10, 677 28, 012 22, 687 15, 603 15, 223 56, 683 14, 759 37, 427 29, 380 13, 690 1, 318	181, 169 223, 660 476, 904 - 770, 512 400, 509 511, 926 612, 864 1, 157, 013 493, 649 1, 052, 095 355, 818 150, 064
1932 January February March April May 1 June 1	79 50 51 73 81 46	37 30 28 34 54 62	11, 105 31, 140 31, 966 17, 707 45, 244 12, 452	4, 648 28, 691 11, 660 20, 066 50, 196 22, 871	117, 298 417, 966 685, 949 572, 121 1, 241, 176 950, 972

¹ Preliminary figures subject to change.

Occurrence of Industrial Disputes, by Industries

Table 2 gives by industry, the number of strikes beginning in April, May, and June, 1932, and the number of workers directly involved.

TABLE 2.—INDUSTRIAL DISPUTES BEGINNING IN APRIL, MAY, AND JUNE, 1932

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Industrial group	Number	of disput			of workers : tes beginni	
	April	May	June	April	May	June
Bakers	3	12	*******	33	1, 129	
Barbers Brewery and soft-drink workers	1	1	3	1,000	2, 500	850
Building trades	19	19 7	5 4	3, 205 529	31, 253 408	158 404
Clothing	9	12 3	8	752 47	5, 139 850	30 469 15
FurnitureHospital workers	2	1	1	90 47 41	20 39	70
Iron and steel Light, heat, power, and water Longshoremen and freight handlers	3	1	1	1,612	325 100	40
Lumber, timber, and mill work	-	2	i	37	257	200
Miners operators, actors, and	8	. 4	3	7, 555	1, 090	5, 200
theatrical workers Paper and paper-goods workers	1	1		57	10	
Printing and publishing Shipbuilding		2	3		743	825 45
Stone	2			80 .	000	
Municipal workers Textiles Tobacco		4	5	75 1, 048 22	135	3, 000 609
Other occupations	5	8	6	1, 407	936	528
Total	73	81	46	17, 707	45, 244	12, 452

Size and Duration of Industrial Disputes, by Industries

Table 3 gives the number of industrial disputes beginning in June, 1932, classified by number of workers and by industries.

TABLE 3.—NUMBER OF INDUSTRIAL DISPUTES BEGINNING IN JUNE, 1932, CLASSIFIED BY NUMBER OF WORKERS AND BY INDUSTRIAL GROUPS

secondleven det mend ute	Number	of dispu	tes beginn involving-	ning in J	une, 1932,
Industrial group	6 and under 20 workers	20 and under 100 workers	100 and under 500 workers	500 and under 1,000 workers	1,000 and under 5,000 workers
BarbersBuilding trades			2	1	
Chauffeurs and teamsters	1	3	2		
Clerks, salesmen		i			
Form labor	3	3	2		
ongshoremen and freight handlers		1			
Lumber, timber, and mill work Metal trades			1		
MinersPaper-goods workers			1	1	2
Tinting and publishing				•	
Municipal workers			******	1	1
other occupations		3	3 2		********
Total	9	17	14	3	3

In Table 4 are shown the number of industrial disputes ending in June, 1932, by industries and classified duration.

Table 4.—NUMBER OF INDUSTRIAL DISPUTES ENDING INJUNE, 1932, BY INDUSTRIAL GROUPS AND CLASSIFIED DURATION

	Classified	duration of	strikes endir 32	ng in June,
Industrial group	One-half month or less	Over one- half and less than 1 month	1 month and less than 2 months	2 and less than 3 months
Barbers Building trades Chauffeurs and teamsters	2 2 3	1	5	77
Clothing Farm labor Food workers	5	1	1	*********
ron and steel	1		1	
Miners Paper and paper-goods workers Shipbuilding	1	1		
Municipal workers Cextiles	2 4	1		
Other occupations	5			
Total	26	4	7	

Conciliation Work of the Department of Labor in June, 1932

By Hugh L. Kerwin, Director of Conciliation

THE Secretary of Labor, through the Conciliation Service, exercised his good offices in connection with 74 labor disputes during June, 1932. These disputes affected a known total of 15,733 employees. The table following shows the name and location of the establishment or industry in which the dispute occurred, the nature of the dispute (whether strike or lockout or controversy not having reached the strike or lockout stage), the craft or trade concerned, the cause of the dispute, its present status, the terms of settlement, the date of beginning and ending, and the number of workers directly and indirectly involved.

There were 18 cases involving the law on the prevailing rate of wages. In these cases it is not always possible to show the number involved, due to lack of information as to total number required before completion of construction.

On July 1, 1932, there were 39 strikes before the department for settlement and, in addition, 46 controversies which had not reached the strike stage. The total number of cases pending was 85.

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				Da	Duration	Workers	rers
Nature of controversy	Craftsmen concerned	Cause of dispute	Present status and terms of settlement	Begin- ning	Ending	Di- rectly	In- direct-
Strike	Terrazzo workers	Dispute relative to amount of wages paid to mechanics.	Adjusted. Disputed amount of wages placed in escrow for later	1932 May 30	1932 June 1	10	35
Controversy	Employees	Additional 10 per cent wage cut	decision. Unable to adjust. Workers not reemployed. Adjusted Agreed to pay prevail.	do	do	25 8	150
do	St	Proposed cut	a 1		June	750	
Lockout	helpers.	Wages cut 15 to 23 per cent. Open	\$12 per day; helpers, \$8. Unable to adjust	May	1 June 30	20	65
Controversy	do Building workers	shop. Wage dispute. Prevailing-wage discussion	do Adjusted. Prevailing scale fixed	do May 13	do do 4	30	28 2
	Laborers	Asked increase from 30 to 60 cents per hour and employment of	and will be paid.	June	2	4	250
Strike. Controversy.	Carpenters Cleaners, etc.	local men. Wages and working conditions Working conditions; 1 discharged.	do Employee reinstated	June 3 May 16	May 16	(3)	00
ор-	Metal polishers	Wages cut from 95 to 75 cents per hour.	Adjusted. Accepted 75 cents per hour. May return according to	June	6 June 11	00	100
9 9 9	Terrazzo workers	Working conditions	senority. Adjusted. On August 1, mechanics will receive \$10 per day; helpers	May	1 June 3	ε	
Controversy.	Bakery-wagon sales-	Wages cut 20 per cent	Adjusted. Accepted 10 per cent	Apr. 20	May 27	513	
op-	Bakers and helpers	· · · · · · · · · · · · · · · · · · ·	Adjusted. Bakers accepted 10 per	do	May 23	535	
do	Painters	Prevailing wage not being paid	Unable to adjust. Job completed.	May 8	June 11	38	
-do	Laborers	Prevailing wage	Adjusted. Accepted 40 cents per	June 1	June 7	(3)	
Strike	Cutters, carvers, and planer men.	Wages cut 20 per cent	Adjusted. Cutters cut 20 per cent; carvers, 19 per cent; and planer men 24 per cent.	Mar. 1	May 12	86	

LABOR DISPUTES HANDLED THROUGH THE CONCILIATION SERVICE DURING THE MONTH OF JUNE, 1932-Continued

The state of the s			Selection where the selection is a selection of the selec		Dur	Duration	Workers	rers
Company or industry and location	Nature of controversy	Craftsmen concerned	Cause of dispute	Present status and terms of settlement	Begin- ning	Ending	Di- rectly	In- direct- ly
Post-office building, Glens Falls,	Controversy	Laborers	Prevailing-wage discussion.	Adjusted. Agreed to pay 40 cents	1932 May 31	1932 June 4	Θ	
Miners, Avoca, Pa Cunco Eastern Press, Philadel-	do	Miners Bindery workers	Wage cut Asked increase from 30 to 45 cents	per hour. Pending Unable to adjust. Places filled by	Apr. 15 June 3	June 10	145	729
pma, ra. Spencer Coal Co., Scranton, Pa Paper-mill workers, Delair, N. J	-do	Miners Paper-mill workers	Wages cut 15 per cent.	Pending Adjusted. Accepted 15 per cent	Apr. 14 June 1	June 25	200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Naval Air Base, Sunnyvale, Calif.	Controversy.	Electrical workers	Prevailing-wage discussion.	Adjusted. Agreed on \$9 per day Adjusted. Agreed on \$10 per day.	May 28	June 3	900	40
Miners, Eynon, Pa Building, Washington, D. C Stand-pipe construction, Alameda,	Strike Lockout Controversy	Miners Carpenters Boilermakers	Employment of new men. Wages cut from \$11 to \$8 per day	. 0			888	3,000
Calif. Air base, Sunnyvale, Calif. Federal building, Seattle, Wash.	op	do	Prevailing-wage discussion	ot a	do.	June 10	99	
Major Baking Co., Chicago, Ill	op	Bakery workers	Proposed wage cut of \$5 per week	and 6-hour day. Adjusted. Bakers accepted cut of \$4.50 per week. Allowed 6-hour	qo	June 17	300	1 1 1 1
Veterans Hospital, Lincoln, Nebr.	do	Building workers	Alleged that men were required to	day. Adjusted. Building completed	June 10	June 18	ε	\$ 8 8
Post-office building, Canton, Ohio.	ор	Bricklayers	Alleged violation of prevailing	Adjusted. Allowed prevailing rate,	June 6	June 22	40	
Standard Kid Co., Wilmington,	do	Leather workers	wage scale. Proposed wage cut 20 per cent	Adjusted. Accepted cut	June 13	June 18	275	1
Carpenters, Allentown, Bethle-	ор	Carpenters	Wages cut.	Adjusted. Accepted 12½ per cent	June 7	June 21	100	10
nem, and Catasaqua, Fa. Post-office building, Central City,	do	Bricklayers	Employment of local labor	cut. Adjusted. Local men largely em-	do	June 15	ε	
Ky. Carlsbad Caverns, National Park,	do	Building workers	Prevailing-wage discussion.	Adjusted. Rates fixed and will be	June 10	July 20	ε	
Building trades, Portland, Oreg	do	Painters, electri-	do	paid.	Mar. 1	June 15	250	250
Jonas Co., Manchester, N. H.	Strike	and plumbers.	Wages cut; asked recognition of	Pending	June 15	1 1 1 2 2 4 3 4	20	

1 Allowed violation of prevailing wage! Adjusted. Rates fixed and will be | June 10 |----

8			2		1	9 9	460		30	250	10	140	42	!		-
(3)	250	12	88 8	100	64	23 23	60	ε	27 01	514	40	13	25	Θ	75	400
1 200	May 27 June 20	June 27		June 15		June 15		1	June 26	June 28	June 16	June 23	June 11	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	June 27	
	June 8 May 23 June 15	-do		May 31	June 15	June 10	do do	June 20		June 1	May 27	June 20	June 11	June 4	June 15	June 27
Rates fixed and will be	d. Employed 60 per cent men. d. All accepted cut d. Allowed 41 cents per	Adjusted. Rates fixed	Pending Adjusted. Accepted 5 cents cut per hour.	Adjusted. Agreed on \$5.60 per	Wages to be the same		Cut withdrawn	Pending Tralessified Mediation not mea-	1.50		earned on chair, so lor Saturday, 51½-hour week. Adjusted. Accepted 10 per cent	reinstated.	No Saturday work. Adjusted. Cut withdrawn	Pending	em-	Pending.
0 11	Percentage of local labor to be employed. Misunderstanding as to rates.	op	Working conditions. Cut 10 cents per hour; board makerers to 56 cents, laborers to 30.	Vage scale		Alleged violation of working agree- ment. Satting of tile floors	30 to \$8 per day.	Prevailing-wage scale	do Violation of 8-hour day	Wage dispute	Refused to accept 15 per cent cut	Three cutters discharged	Cut in piecework	Prevailing-wage discussion	Alleged discrimination	Dispute relative to compensation insurance.
Carpenters	Carpenters	Building workers	Stonecutters	Building laborers	Operating engineers.	Carpenters and painters.		Building	Building Iron workers	Barbers	Knitters and finish-	ers. Cutters and finish-	ers. Dressmakers	Building	Longshoremen	Granite cutters
Controversy.	Controversy.	do	Strike	Controversy	do	Strike	Controversy	Controversy	op	qo	Strike	do	do	Controversy	do	Strike
Ala. Textile workers, Areadia, S. C. Post-office building, Greensboro, N. C. N	Building, Jersey City and vicinity, N. J. Building, Minneapolis, Minn Post-office building, Springfield,	Ohio. Post-office building, Thermopolis,	Stonecutters, Providence, R. I. R. B. McEwen & Sons, Whippany, N. J.	Federal Building, Seattle, Wash	Barracks, Patterson Field, Ohio	Post-office building, Rochester, Pa.	, Pittsburgh, Pa. s, Pittsburgh, Pa. vers, New York,	Jersey City, and Bayonne, N. J. Veterans Hospital, Wichita, Kans.	Waukegan Pier, Waukegan, III Dam construction, Davenport,	Iowa. Barbers, Portland, Oreg	Sioux Sportwear, New York, N. Y.	Rubiner Underwear Co., Rich-	I. Q. S. Dress Co., Mount Vernon,	Post-office building, Hempstead,	Long Island, N. Y. Federal Barge Line, Mobile, Ala	Granite cutters, Quincy, Mass
1	30813	-:	32	-5												

1 Not reported.

LABOR DISPUTES HANDLED THROUGH THE CONCILIATION SERVICE DURING THE MONTH OF JUNE, 1932-Continued

Contrador describing		Party I I was	A STATE OF S		Dar	Duration	Workers	rers
-	Nature of controversy	Craftsmen concerned	Cause of dispute	Fresent Status and terms of settlement	Begin- ning	Ending Di-	Di- rectly	In- direct- ly
ouis,	General Materials Co., St. Louis, Lockout	Employees	Working conditions	Pending	1932 May 15	1932	142	142 1,500
Mo. Post-office building, Montrose,	Controversy	B	Fallure to pay prevailing wage	Adjusted. Rate fixed at \$10.50 for Jan. 1 June 29	Jan. 1	June 29	7	20
Colo. Post-office building, Wisconsin	do	Sons.	Prevailing-wage discussion	8-nour day. Adjusted. Rate fixed at 35 cents June 25	June 25	July 1	Θ	1
Rapids, W18. Federal building, Lewisburg, Pa.	do	Bricklayers	op	Adjusted, Allowed \$1.50 per	June 15	June 22	22	20
Standard Commercial Body Corp., New York, N. Y.	Strike	Automobile-body workers.	Additional wage cut 10 per cent	Adjusted. Accepted cuts. Com- pany agreed to restore wages	June 27	June 28	45	55
bor,	Post-office building, Ann Arbor, Controversy	13	Prevailing-wage discussion	when practicable.	June 1	8 8 8 8 8	96	260
Y. Y.	I. Cohen & Sons, Brooklyn, N. Y. Strike	Milk-wagon drivers.	Long hours, conditions, etc	Adjusted. Shorter hours and committee on conditions ap-	June 24	June 26	26	1
Pitts-	Western Coal Mining Corp., Pitts- Controversy	Miners	Wages cut 25 per cent.	Pending	June 25	1	ε	
Shell Oil Co., Portland, Oreg	do	Oil-truck drivers	Wages and working conditions	0P	June 20	1	25	
		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			1	1	7,057	7,057 8,676

1 Not reported.

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LABOR AWARDS AND DECISIONS

Colorado Industrial Commission Disapproves Wage Reduction in Coal Industry

THE Colorado Fuel & Iron Co. notified the Industrial Commission of Colorado of its intention to reduce by 15 per cent, effective June 16, 1932, the wages and salaries of all employees of the company and its subsidiaries, except the employees of the Colorado & Wyoming Railway Co. (members of the railroad brotherhoods).

Stating that they were unable to earn a living even at the present wages, 695 employees of the company signed a petition protesting

any reduction in wages.

The commission held hearings at Walsenburg, June 13, 1932, and at Trinidad, June 14, 1932. At these hearings the company gave the following reasons for making the proposed reduction in the wages of its employees:

The employer contends that it operates the largest steel plant in the West and is the largest producer of coal in Colorado; that the steel plants operating in the eastern part of the United States have made a reduction of 15 per cent in the wages of their employees; that therefore it is necessary that this company make alike reduction in order to meet competition; that many of the eastern steel plants ship their products to the Pacific coast through the Panama Canal and undersell the Colorado manufacturers of steel; that there is not as large a demand for iron and steel in the West as there is in the eastern part of our country, due in a large measure to a much smaller population; that under present conditions this company finds it impossible to ship any of its products east of the Missouri River; that 50 per cent of the coal produced in its mines is used in the steel plant in Colorado; that there is no market in Denver for southern Colorado coal, because lignite coal is cheaper and has the advantage of lower freight rates, and that competition in coal from the nonunion coal fields of Arkansas, Oklahoma, and other nonunion coal fields makes it impossible to sell coal in many places where it was sold in former years; that it has more employees than jobs; that many of its coal mines are shut down permanently; that it is necessary to make the proposed reduction if it is to continue to operate its mines; that this 15 per cent reduction includes the executive officers and all the employees except the employees of the Colorado & Wyoming Railroad, who are members of the railroad brotherhoods.

Many of the employees testified that they earned only from \$25 to \$55 a month under the present wage scales, and that it would be impossible for them to live if their wages were reduced 15 per cent as proposed—a statement which was borne out by a number of wage statements examined by the commission. The commission also found that a large majority of these employees were married men with from two to six children, and that many were in debt to the company store.

The findings of the commission are as follows:

We can see some reason why a reduction in the wages of the employees of the steel plant might possibly be justified; however, we can not see any reason for or justice in the proposition to reduce the wages of the employees in the coal

mines 15 per cent, when the evidence shows these men are not receiving a living wage under the present wage scale. We can not understand how they can live if the proposed reduction in the wage scale is put into effect. The Colorado Fuel & Iron Co. is the first company to propose this 15 per cent reduction in wages. Naturally, its action will force the other bituminous coal mine operators to do the same thing. Since this notice was filed with the commission by this company we have received several proposals for wage reductions from the large producers of bituminous coal. The condition existing among these miners is deplorable and will be much worse when this reduction is put into effect; slowly the coal miner is being driven into industrial slavery. If the coal companies would make an effort to stabilize coal prices and would discontinue the cutting of prices, it would seem to us that they could pay a living wage to their employees, and, in a measure, lighten the human price of coal.

The employer informs the commission that the 15 per cent reduction includes the executive officers of the company as well as the men employed in the mines. We do not believe it is fair or just to reduce the wages of the men receiving less than a living wage and then reduce the salaries of the executive officers only in the same per cent. The officers are undoubtedly receiving large salaries and if the company wishes to reduce expenses we would suggest that it should first reduce the salaries of those men who can stand a reduction of a much larger per

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cent than the men who are not making a living wage.

The award of the commission, rendered June 17, 1932, disapproved the proposed reduction.

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COOPERATION

District of Columbia Credit Union Law

THE incorporation of credit unions within the District of Columbia is provided for by Public Act. No. 100 I is provided for by Public Act No. 190, approved June 23, 1932. At the beginning of 1931 there were 32 States 1 which had authorized the formation of credit unions, and during the year three additional States ² enacted legislation on the subject. The District of Columbia law is therefore the thirty-sixth enactment in this field.

This new law follows the general form of the credit union laws passed in the various States. Its only unusual feature is that whereas without exception the other credit union laws prohibit loans to any except members of the organization, the District of Columbia law includes among the duties of the board of directors that of determining the "maximum loans other than loans to members."

An analysis of the act is given below:

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CREDIT UNION ACT OF DISTRICT OF COLUMBIA

Scope and purpose.—Promotion of thrift among members and creation of a source of credit for them for provident purposes.

Number who may organize.—Seven or more persons residing in the District or employed therein.

filing articles of incorporation.—With recorder of deeds.

Limitation on membership.—Restricted to groups whose members reside, do business, or are employed in the District, and either have a common bond of occupation or association or reside within a well-defined neighborhood or community.

Value of share.—Not to exceed \$10.

Stock ownership per member.—Not to exceed 200 shares.

Management.—Not less than 5 directors, credit committee of not less than 3, and supervisory committee of 3. Officers to be president, vice president, clerk, and treasurer (last two may be combined), elected by and from directors. No director or committee member may receive any compensation for his services.

Investment of funds.—May invest not to exceed 25 per cent of capital in shares of building and loan associations and of other credit unions, and in any investment legal for savings banks and trust funds.

Right to borrow.—Restricted to amount not exceeding 40 per cent of "paid-in and unimpaired capital.'

Meetings.—Annually, in January. Special meetings as by-laws provide.

Voting.—Each member one vote.

Vote by proxy.—Prohibited, but an organization which is a member may cast

its vote through a delegate.

Loans.—For provident purposes only. Application must be on form provided, and must state purpose for which desired, and security, if any, offered. All members of credit committee must be present, and loans must be approved by a majority of the committee.

Maximum amount of loan.—Unsecured, \$50.

² Arkansas (Acts of 1931, No. 161), Colorado (Acts of 1931, ch. 80), and Ohio (Acts of 1931, p. 581).

¹ For a discussion of legislation relating to credit societies in these 32 States see Bulletin No. 531 of this

Security for loans.—Indorsed note or assignment of shares is accepted as security.

Loans to and indorsements by directors, officers, and members of committees.— Loans only to amount of shares; indorsements prohibited.

Interest on loans.—Not to exceed 1 per cent a month, computed on unpaid balances.

Reserve fund.—Shall consist of all entrance fees and fines, plus 20 per cent of net earnings each year.

Dividends.—Payable annually on recommendation of directors, on all paid-up shares outstanding.

Taxation.—Exempt except for real estate taxes and license tax of \$15 per year. Use of name "credit union."—Prohibited unless organized under act, in which case it must be used.

Condition of Labor Banks, June, 1932

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ON JUNE 30, 1932, only 7 labor banks were still in operation. These had combined deposits of \$22,662,514 and total resources of \$28,564,797. This is a decrease of 4 banks since the same date of 1931. During the year the Federation Bank & Trust Co. at New York City, the Labor National Bank at Jersey City, the American Bank at Toledo, and the Labor National Bank at Three Forks, Mont., closed. It is reported in the press, however, that the first named of the above banks has reorganized and applied for permission to begin business again.

The details for the various banks, shown in the following table, were furnished by Prof. J. Douglas Brown, Industrial Relations Section, Princeton University.

CONDITION OF LABOR BANKS, JUNE 30, 1932

Name and location of bank	Capital	Surplus and undi- vided profits	Deposits	Total re- sources
Telegraphers' National Bank, St. Louis, Mo	\$500, 000 300, 000 650, 000 400, 000 375, 000 200, 000 112, 500	\$197, 486 163, 692 577 157, 917 212, 447 151, 277 22, 500	\$5, 265, 238 4, 351, 018 4, 691, 389 3, 576, 986 2, 502, 608 1, 989, 226 286, 049	\$6, 482, 52; 5, 708, 400 5, 587, 16; 4, 356, 45; 3, 612, 30; 2, 396, 86; 421, 04;
Total	2, 537, 500	905, 896	22, 662, 514	28, 564, 79

LABOR TURNOVER

Labor Turnover in Manufacturing Establishments

THIS article presents quarterly labor turnover rates for manufacturing as a whole and for 10 separate manufacturing industries

for the second quarter of 1932.

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At the end of 1931, the bureau decided to discontinue the publication of monthly turnover rates. While data were collected monthly during the first quarter of 1932, the data were combined to get quarterly figures. Data for the second quarter were collected at the end of the quarter.

The rates here published therefore represent the number of changes per 100 employees that took place in a 3-month period. The data

for 1931 have been recast to quarterly rates.

The average used for compiling turnover rates by the Bureau of Labor Statistics is the weighted arithmetic mean. The indexes for manufacturing as a whole were compiled from reports to the bureau from representative establishments in approximately 148 census industry classifications. These firms employ over 1,000,000 people. In the 10 industries for which separate indexes are presented, reports were received from representative plants employing at least 25 per cent of the employees in each industry as shown by the Census of Manufactures of 1927.

The net turnover rate shown in the table means the rate of replacement. It is the number of jobs that are vacated and filled per 100 employees. In a plant that is increasing its force the net turnover rate is the same as the separation rate, because while more people are hired than are separated from their jobs, the number hired above those leaving is due to expansion and can not be justly charged to turnover. On the other hand, in a plant that is reducing its number of employees, the net turnover rate is the same as the accession rate, for while more people are separated from the pay roll than are hired, the excess of separations over accessions is due to a reduction of force, and therefore, can not be logically charged as turnover expense.

As the data for turnover rates are based on returns from a limited number of establishments, these rates should not be confused with the indexes of changes in employment, as compiled and published monthly by the Bureau of Labor Statistics based on reports from a

much larger number of establishments.

Table 1 shows for all industries the total separation rate, subdivided into the quit, discharge, and lay-off rate, together with the accession rate and net turnover rate per quarter for 1931 and 1932. In the six quarters shown in the table the net turnover rate varied from 9.68 employees per 100 in the last quarter of 1931 to 7.80 per 100 in the second quarter of 1932. In the second quarter the quit

rate, the discharge rate, and the accession rate were each lower than in any of the preceding five quarters, while the lay-off rate $w_{\rm as}$ decidedly higher.

TABLE 1.—QUARTERLY TURNOVER RATES IN SELECTED FACTORIES IN 148 INDUS.

				Separa	ation ra	tes						
Period	Q	uit	Disc	harge	Lay	y-off		separa- on		ession	Net over	
70	1931	1932	1931	1932	1931	1932	1931	1932	1931	1932	1931	1932
First quarter Second quarter Third quarter Fourth quarter	2. 43 3. 28 3. 32 2. 37	2. 28 2. 15	0. 66 . 81 . 71 . 54	0. 58	5. 45 8. 29 10. 07 10. 65	8. 18 12. 92	8. 54 12. 38 14. 10 13. 56	11. 04 15. 56	9. 53 8. 23 9. 27 9. 68	9. 65 7. 80	8. 54 8. 23 9. 27 9. 68	9.6

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Quit. Disch Lay-Total

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Lay Tot Ace

Table 2 shows the quit, discharge, lay-off, accession, and net turn-over rates for automobiles; boots and shoes; brick; cotton; iron and steel; foundry and machine shops; furniture; men's clothing; saw-mills; and slaughtering and meat packing; for the second quarter of 1931, and for the first and second quarters of 1932.

The highest quarterly turnover rate in the second quarter of 1932 was 24.04 per 100 employees in brick manufacture. The next highest rate was 21.22 in sawmills. The lowest turnover rate was 3.15 in the iron and steel industry.

Men's clothing had the highest quit rate during the second quarter of 1932. The lowest quit rate was shown in brick manufacturing. The highest discharge rate occurred in slaughtering and meat packing, and the lowest in men's clothing. The highest lay-off rate was shown in brick and the lowest in the boot and shoe industry. The highest accession rate occurred in the brick industry and the lowest in iron and steel.

TABLE 2.—QUARTERLY TURNOVER RATES IN SPECIFIED INDUSTRIES

Class of rates	Second quarter, 1931	First quarter, 1932	Second quarter, 1932	Second quarter, 1931	First quarter, 1932	Second quarter, 1932
I anothering a side of the	A	utomobil	es	Во	ots and sh	noes
Quit	3. 82 1. 06 14. 51 19. 39 11. 69 11. 69	3. 42 . 91 12. 27 16. 61 19. 39 16. 61	2. 65 . 43 15. 77 18. 85 22. 02 18. 85	5. 17 1. 31 5. 77 12. 25 14. 45 12. 25	3.77 .99 4.52 9.28 13.93 9.28	2. 59 . 50 8. 81 11. 90 4. 41 4. 41
and the second		Brick		Cotto	n manufa	cturing
Quit Discharge Lay-off Total separation Accession Net turnover	3. 46 4. 70 18. 50 23. 66 22. 97 22. 97	1, 06 1, 49 29, 73 32, 28 21, 53 21, 53	0. 84 . 55 32, 19 33, 58 24, 04 24, 04	4. 41 1. 26 7. 05 12. 72 11. 78 11. 78	3. 46 . 92 7. 69 12. 07 13. 48 12. 07	2. 56 . 74 22. 02 25. 32 5. 67 5. 67
	Found	ries and n shops	nachine		Furnitur	e
Quit	12. 64 15. 94	1. 24 . 39 9. 67 11. 30 8. 69 8. 69	0. 97 . 39 12. 32 13. 68 5. 79 5. 79	3. 06 1. 19 13. 83 18. 08 13. 30 13. 30	1. 65 . 77 16. 40 18. 82 12. 32 12. 32	1. 18 . 42 19. 38 20. 98 10. 86 10. 86
	In	on and st	eel	М	en's cloth	ning
Quit Discharge Lay-off Total separation Accession Net turnover	6, 68 9, 71 4, 48	1. 63 . 16 4. 23 6. 02 4. 32 4. 32	1. 94 . 17 10. 94 13. 05 3. 15 3. 15	4. 11 . 50 4. 25 8. 86 10. 36 8. 86	2. 97 . 31 6. 41 9. 69 10. 29 9. 69	3. 25 . 12 15. 28 18. 65 6. 54 6. 54
	step I	Sawmills		Slaugh	ntering an packing	
Quit. Discharge Lay-off Total separation Accession Net turnover	22. 26 28. 20	2. 31 1. 24 18. 04 21. 59 19. 70 19. 70	2, 27 , 98 20, 70 23, 95 21, 22 21, 22	4. 12 1. 41 13. 01 18. 54 19. 36 18. 54	3. 18 1. 19 19. 81 24. 18 16. 68 16, 68	2, 77 . 99 17, 16 20, 92 20, 85 20, 85

HOUSING

Building Permits in Principal Cities of the United States, June, 1932

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INDICATED expenditures for total building operations in June, 1932, were \$49,452,379 in 354 cities from which reports were received by the Bureau of Labor Statistics. This is 26.3 per cent less than the indicated expenditures for total building operations in these cities during May, 1932.

Indicated expenditures for new residential building increased three-tenths of 1 per cent, while the estimated expenditures for new

nonresidential building decreased 38.3 per cent.

There was an increase of 2.7 per cent in the indicated expenditures for additions, alterations, and repairs in these cities comparing June permits with May permits.

During June, 1932, there were 2,488 family dwelling units provided in new buildings. This is 5.9 per cent fewer dwelling units than were provided in new buildings for which permits were issued during May.

Building permit reports were received by the Bureau of Labor Statistics from 354 identical cities of the United States having a population of 25,000 or over for the months of May and June, 1932, and from 343 identical cities for the months of June, 1931, and June, 1932. The cost figures as shown in the following tables apply to the cost of the buildings as estimated by the prospective builder on applying for his permit to build. No land costs are included. Only building projects within the corporate limits of the cities enumerated are shown. The States of Illinois, Massachusetts, New York, New Jersey, and Pennsylvania, through their departments of labor, are cooperating with the United States Bureau of Labor Statistics in the collection of these data.

Comparisons, May and June

Table 1 shows the estimated cost of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total building operations in 354 identical cities of the United States, by geographic divisions.

TABLE 1.—ESTIMATED COST OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 354 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN MAY AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

		ential buildi mated cost)	ngs (esti-	New nonresidential buildings (estimated cost)				
Geographic division	May, 1932	June, 1932	Per cent of change	May, 1932	June, 1932	Per cent of change		
New England	\$1, 099, 123 2, 508, 543 1, 492, 092 1, 081, 855 1, 262, 178 531, 080 2, 112, 430	\$1, 621, 635 3, 155, 915 1, 320, 295 820, 245 1, 186, 677 404, 474 1, 612, 410	+47. 5 +25. 8 -11. 5 -24. 2 -6. 0 -23. 8 -23. 7	\$1, 210, 951 9, 320, 769 3, 884, 477 2, 494, 668 23, 906, 478 3, 573, 064 2, 560, 349	\$1, 804, 859 8, 599, 258 2, 759, 434 2, 222, 774 10, 646, 538 1, 176, 157 1, 777, 061	+49. -7. -29. -10. -55. -67. -30.		
Total	10, 087, 301	10, 121, 651	+0.3	46, 950, 756	28, 986, 081	-38.		

TABLE 1.—ESTIMATED COST OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 354 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN MAY AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS—Continued

atrimusio (os)		s, alterations (estimated o		Total cons	truction (est	imated	Num-
Geographic division	May, 1932	June, 1932	Per cent of change	May, 1932	June, 1932	Per cent of change	ber of cities
New England Middle Atlantic East North Central South Atlantic South Central Mountain and Pacific	\$1, 321, 745 3, 256, 186 1, 746, 797 542, 943 1, 263, 814 578, 291 1, 366, 278	\$1, 084, 709 3, 609, 832 1, 441, 043 782, 911 1, 436, 182 613, 130 1, 376, 840	-17.9 +10.9 -17.5 +44.2 +13.6 +6.0 +.8	\$3, 631, 819 15, 085, 498 7, 123, 366 4, 119, 466 26, 432, 470 4, 682, 435 6, 039, 057	\$4, 511, 203 15, 365, 005 5, 520, 772 3, 825, 930 13, 269, 397 2, 193, 761 4, 766, 311	+24. 2 +1. 9 -22. 5 -7. 1 -49. 8 -53. 1 -21. 1	53 70 94 25 40 34 38
Total	10, 076, 054	10, 344, 647	+2.7	67, 114, 111	49, 452, 379	-26.3	354

New residential buildings showed an increase of three-tenths of 1 per cent in estimated expenditures, comparing June permits with May permits. The increase was confined to two divisions, the New England and the Middle Atlantic. The other five geographic divisions showed decreases. Only one geographic division, the New England, showed an increase in estimated expenditures for new nonresidential buildings. There was an increase of 2.7 per cent in the indicated expenditures for additions, alterations, and repairs. Five geographic divisions registered increases in the indicated expenditures for this class of building operations. The increases ranged from eight-tenths of 1 per cent in the Mountain and Pacific States to 44.2 per cent in the West North Central States.

The New England States and the Middle Atlantic States registered increases in the estimated cost of total building operations comparing June permits with May permits. Decreases were shown in each of

the other five geographic divisions.

Table 2 shows the number of new residential buildings, of new non-residential buildings, of additions, alterations, and repairs, and of total building operations in 354 identical cities of the United States, by geographic divisions.

TABLE 2.—NUMBER OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 354 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN MAY AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

Geographic division		esiden- ildings New no dential l ing		build- teration		ns, and	Total constru	
	May,	June,	May,	June,	May,	June,	May,	June,
	1932	1932	1932	1932	1932	1932	1932	1932
New England	217	215	750	701	2, 363	2, 116	3, 330	3, 032
Middle Atlantic	448	393	1, 632	1, 479	5, 218	5, 032	7, 298	6, 904
East North Central West North Central South Atlantic	319	259	1, 774	1, 453	3, 395	2, 867	5, 488	4, 579
	290	215	950	673	1, 445	1, 064	2, 685	1, 952
	292	263	616	569	3, 039	2, 872	3, 947	3, 704
South Central	227	181	435	420	1, 742	1, 371	2, 404	1, 972
	551	456	1, 166	1, 049	3, 286	3, 237	5, 003	4, 742
Total Per cent of change	2, 344	1, 982 -15. 4	7, 323	6, 344 -13. 4	20, 488	18, 559 -9. 4	30, 155	26, 885 -10. 8

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Comparing permits issued in June, 1932, with those issued in May, 1932, there was a decrease of 15.4 per cent in the number of new residential building, a decrease of 13.4 per cent in the number of new nonresidential building, a decrease of 9.4 per cent in the number of additions, alterations, and repairs, and a decrease of 10.8 per cent in the number of total building operations. All geographic divisions showed decreases in the number of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and in the number of total buildings for which permits were issued.

Table 3 shows the number of families provided for in the different kinds of housekeeping dwellings, together with the estimated cost of such dwellings, for which permits were issued in 354 identical cities during May and June, 1932, by geographic divisions.

TABLE 3.—ESTIMATED COST AND NUMBER OF FAMILIES PROVIDED FOR IN THE DIFFERENT KINDS OF HOUSEKEEPING DWELLINGS FOR WHICH PERMITS WERE ISSUED IN 354 IDENTICAL CITIES IN MAY AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

		1-family dw	ellings		J. D. Deales	2-family dw	ellings	
Geographic division	Estima	ted cost	Famil vide	les pro-	Estima	ated cost	Famili	es pro-
	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$868, 723 1, 882, 593 1, 323, 292 952, 655 1, 188, 078 406, 305 1, 860, 505	\$838, 135 1, 417, 103 1, 166, 095 784, 995 1, 051, 977 375, 784 1, 281, 960	184 372 297 272 283 202 510	187 318 242 209 246 172 426	\$183, 900 554, 450 153, 800 79, 400 16, 900 70, 175 152, 525	\$156, 500 401, 512 130, 200 25, 750 2, 000 20, 225 100, 950	59 140 38 24 8 40 58	46 106 30 16 2 14
Total Per cent of change	8, 482, 151	6, 916, 049 18. 5	2, 120	1, 800 -15. 1	1, 211, 150	837, 137 -30. 9	367	-32.5
- min case in den	М	ultifamily d	lwellings		Total,	all kinds of dwellin		ping
Geographic division	Estima	ted cost		es pro-	Estima	ited cost	Families vided	
	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932
New England Middle Atlantic East North Central West North Central South Atlantic	\$18, 000 71, 500 15, 000 46, 800 57, 200 54, 600	\$27, 000 1, 337, 300 24, 000 9, 500 128, 000 8, 465	6 18 4 19 35 37	10 265 3 4 63 6 88	\$1, 070, 623 2, 508, 543 1, 492, 092 1, 078, 855 1, 262, 178 531, 080 2, 106, 430	\$1, 021, 635 3, 155, 915 1, 320, 295 820, 245 1, 181, 977 404, 474 1, 582, 410	249 530 339 315 326 279 606	244 688 273 223 313 192 554
South Central Mountain and Pacific	93, 400	199, 500	38	00	2, 100, 100	1,002, 110	000	00

Comparing permits issued in June, 1932, with those issued in May, 1932, in these 354 identical cities, there was a decrease of 5.9 per cent in the indicated expenditures for all kinds of housekeeping dwellings and a decrease of 5.6 per cent in the number of family dwelling units provided in these dwellings. The Middle Atlantic was the only geographic division registering an increase in indicated expenditures

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for housekeeping dwellings and the only division registering an increase in the number of family dwelling units provided, comparing June with May.

Expenditures for 1-family dwellings decreased 18.5 per cent and the number of families provided for in 1-family dwellings decreased 15.1 per cent comparing these two periods. All geographic divisions showed decreases in expenditures for 1-family dwellings. All divisions, except the New England, showed decreases in the number of families provided for in this class of structure.

Decreases were shown in indicated expenditures for 2-family dwellings in each of the seven geographic divisions, and also for the

number of families provided for in this class of dwelling.

There was an increase of 386.3 per cent in the indicated expenditures for apartment houses and an increase of 179.6 per cent in the number of family dwelling units provided for in apartment houses comparing June permits with May permits in these cities. This large increase was mostly accounted for by the increase in the Middle Atlantic States. However, five of the seven geographic divisions registered increases in expenditures for apartment houses.

Table 4 shows the index number of families provided for and the index numbers of indicated expenditures for new residential building, for new nonresidential building, for additions, alterations, and

repairs, and for total building operations.

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TABLE 4.—INDEX NUMBERS OF FAMILIES PROVIDED FOR AND OF THE ESTIMATED COST OF BUILDING OPERATIONS AS SHOWN BY PERMITS ISSUED IN PRINCIPAL CITIES OF THE UNITED STATES

[N	fonthly aver	age, 1929=100]		
A CHARLE	u-u-		Estimated	l cost of-	
Month	Families provided for	New residential buildings	New non- residential buildings	Additions, alterations, and repairs	Total building operations
June	54. 4	45. 1	82. 5	74.6	63.3
June	43, 4	33. 4	41.7	56. 5	39. 4
January 1932 February March April May June	14. 4 13. 0 15. 4 13. 4 11. 3 10. 6	10. 2 9. 1 10. 7 9. 7 7. 9 7. 9	25. 0 16. 5 18. 1 25. 0 39. 3 24. 3	25. 8 26. 7 27. 0 32. 0 27. 3 28. 0	18. 2 14. 3 15. 7 18. 8 23. 3 17. 2

The index number of total building operations for June, 1932, was less than for either May, 1932, or June, 1931. The index numbers of families provided for and of new nonresidential buildings were also considerably lower than for either June, 1931, or May, 1932. The index number for new residential buildings was the same as for May, 1932, but less than one-fourth of that for June, 1931.

Comparisons of Indicated Expenditures for Public Buildings

Table 5 shows the number and value of contracts awarded for public buildings by the different agencies of the United States Government during the months of June, 1931, and May and June, 1932.

TABLE 5.—CONTRACTS LET FOR PUBLIC BUILDINGS BY DIFFERENT AGENCIES OF THE UNITED STATES GOVERNMENT DURING JUNE, 1931, AND MAY AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

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Common la districa	Jun	e, 1931	Ma	y , 1932	June, 1932		
Geographic division	Number	Cost	Number	Cost	Number	Cost	
New England	15	\$1, 201, 064	4	\$154, 539	11	\$685, 11	
Middle Atlantic	16	867, 109	23	2, 429, 919	37	4, 096, 40	
East North Central West North Central	16	1, 211, 009	16	555, 873	34	1,090,6	
South Atlantic	45	165, 963 4, 196, 442	27	822, 368 22, 788, 654	16 54	1,779,4	
South Central	15	1, 241, 636	21	2, 282, 176	23	10, 159, 5 250, 1	
Mountain and Pacific	39	2, 712, 194	17	285, 909	48	1, 364, 3	
Total	149	11, 595, 417	125	29, 319, 438	223	19, 425, 6	

¹ Subject to revision.

Contracts were awarded during June, 1932, by the various agencies of the Federal Government for 221 buildings to cost \$19,425,682. This is considerably less than the valuation of buildings for which contracts were awarded in May, 1932, but nearly twice as much as the value of buildings for which contracts were awarded in June, 1931.

Table 6 shows the value of contracts awarded by the different State governments for public buildings during the months of June, 1931, and May and June, 1932, by geographic divisions.

TABLE 6.—CONTRACTS AWARDED FOR PUBLIC BUILDINGS BY THE DIFFERENT STATE GOVERNMENTS DURING JUNE, 1931, AND MAY AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

Geographic division	June, 1931	May, 1932	June, 1932 1
New England	\$175, 601	\$99, 100	\$703, 92
	2, 056, 025	456, 812	536, 68
East North Central	828, 090	320, 398	363, 10
West North Central	914, 390	613, 656	107, 773
	981, 568	708, 765	244, 21
South Central	47, 787	400, 653	232, 97
	230, 634	243, 502	555, 01
Total	5, 234, 095	2, 842, 886	2, 743, 69

¹ Subject to revision.

During June, 1932, contracts were awarded by the various State governments for buildings to cost \$2,743,692. This is slightly lower than the value of contracts awarded in May and less than one-half of the value of contracts awarded during June, 1931.

Whenever a contract is awarded by either the Federal Government or by a State government in a city having a population of 25,000 or over, the number or cost of such building is shown in the various tables in this article.

Comparisons, June, 1932, with June, 1931

Table 7 shows the estimated cost of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total building operations in 343 identical cities of the United States having a population of 25,000 or over for the months of June, 1931, and June, 1932, by geographic divisions.

TABLE 7.—ESTIMATED COST OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 343 IDENTICAL CITIES AS SHOWN BY PERMITS ISSUED IN JUNE, 1931, AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

		1			ial builed cost)		gs	Nev			tial buil d cost)	dings
Geographic division		June	, 1931	June	, 1932		r cent of nange	June	, 1931	June		Per cent of change
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific		19, 68 5, 01 2, 21 3, 01 2, 10	53, 770 57, 886 11, 500 14, 023 15, 500 03, 474 19, 277	3, 12 1, 32 82 1, 15 40	3, 335 25, 815 20, 295 20, 245 8, 065 44, 474 19, 310		-50. 1 -84. 1 -73. 7 -63. 0 -61. 6 -80. 8 -72. 2	13, 74 8, 03 4, 60 4, 41 2, 52	35, 551 11, 032 17, 573 00, 844 7, 427 28, 430 35, 056	8, 50 2, 73 2, 25 10, 64 1, 13	57, 614 07, 977 58, 959 22, 774 41, 937 73, 307 55, 466	-48. 8 -38. 1 -65. 7 -51. 7 +140. 9 -53. 6 -75. 8
Total	*****	40, 90	05, 430	9, 99	1, 539		-75.6	44, 02	25, 913	28, 8	18, 034	-34. 5
	Addit		alterati stimate		nd repa	irs	Tota	l cons	tructio cost)		imated	Num-
Geographic division	June,	1931	June,	1932	Per ce of chang		June,	1931	June,	, 1932	Per cent of change	
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$2, 103 5, 613 3, 354 1, 076 2, 254 1, 054 2, 528	3, 769 4, 788 5, 890 4, 331 4, 854	1, 446 783 1, 374 613	5, 385 4, 111 0, 443 2, 911 4, 927 2, 452 8, 120	-48 -36 -57 -27 -39 -41 -45	.0 .1 .3 .0 .9	9, 68	2, 687 3, 861 1, 757 7, 258 6, 758	3, 82 13, 17 2, 19	7, 903 9, 697 5, 930	-49. 3 -61. 0 -66. 4 -51. 5 +36. 0 -61. 5 -69. 6	68 93 25 38 33
Total	17, 986	3, 583	10, 24	8, 349	-43	. 0	102, 91	7, 926	49, 05	7, 922	-52.3	343

Indicated expenditures for new residential buildings decreased 75.6 per cent comparing permits issued in June, 1932, with those issued in June, 1931, in these 343 identical cities. Decreases ranging from 50.1 per cent in the New England States to 84.1 per cent in the Middle Atlantic States were shown in all geographic divisions. There was a decrease of 34.5 per cent in indicated expenditures for new nonresidential buildings. All geographic divisions, except the South Atlantic, registered decreases in indicated expenditures for nonresidential buildings. There was, however, an increase of 140.9 per cent in the South Atlantic division. All geographic divisions showed decreases in expenditures for additions, alterations, and repairs. The average for the seven divisions being 43.0 per cent. The South Atlantic was the only division showing an increase in indicated expenditures for total construction. The decrease for the 343 cities was 52.3 per cent.

Table 8 shows the number of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total building operations in 343 identical cities having a population of 25,000 or over for June 1931, and June 1932, by geographic divisions.

25,000 or over for June, 1931, and June, 1932, by geographic divisions. Decreases were shown in the number of new residential buildings, in the number of new nonresidential buildings, in the number of additions, alterations, and repairs, and in the number of total buildings in each geographic division, comparing permits issued in June, 1932, with those issued in June, 1931.

Table 9 shows the number of families provided for in the different kinds of housekeeping dwellings, together with the cost of such

dwellings, for which permits were issued for 343 identical cities, during June, 1931, and June, 1932, by geographic divisions.

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TABLE 8.—NUMBER OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 343 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN JUNE, 1931, AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

Geographic division	New residential buildings		New nonresi- dential build- ings		Additions, al- terations, and repairs		Total construction	
	June,	June,	June,	June,	June,	June,	June,	June,
	1931	1932	1931	1932	1931	1932	1931	1932
New England	461	207	971	673	2, 541	2, 095	3, 973	2, 97-
	1, 436	388	2, 542	1, 458	5, 377	4, 996	9, 355	6, 84-
	851	259	2, 475	1, 448	4, 241	2, 864	7, 567	4, 57-
	504	215	1, 005	673	1, 238	1, 064	2, 747	1, 95-
	541	249	881	551	3, 497	2, 784	4, 919	3, 58-
	509	181	601	417	1, 901	1, 367	3, 011	1, 96-
	1, 179	449	1, 404	1, 031	3, 824	3, 205	6, 407	4, 68
TotalPer cent of change	5, 481	1, 948 -64. 5	9, 879	6, 251 -36. 7	22, 619	18, 375 -18. 8	37, 979	26, 57 -30.

TABLE 9.—ESTIMATED COST AND NUMBER OF FAMILIES PROVIDED FOR IN THE DIFFERENT KINDS OF HOUSEKEEPING DWELLINGS FOR WHICH PERMITS WERE ISSUED IN 343 IDENTICAL CITIES IN JUNE, 1931, AND JUNE, 1932, BY GEOGRAPHIC DIVISIONS

	1	l-family dw	vellings		2-family dwellings					
Geographic division	Geographic division Estima			es pro- l for	Estimat	Families pro- vided for				
	June, 1931	June, 1932	June, 1931	June, 1932	June, 1931	June, 1932	June, 1931	June, 1932		
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$2, 310, 370 7, 645, 644 4, 062, 378 1, 992, 398 2, 589, 300 1, 535, 439 3, 944, 504	\$789, 835 1, 387, 003 1, 166, 095 784, 995 1, 023, 365 375, 784 1, 258, 860	383 1, 157 769 483 509 449 1, 016	179 313 242 209 232 172 419	\$509, 600 1, 456, 942 494, 122 89, 500 106, 000 228, 060 614, 403	\$156, 500 401, 512 130, 200 25, 750 2, 000 20, 225 100, 950	126 381 121 26 33 102 180	40 100 30 10 14		
Total Per cent of change	24, 080, 033	6, 785, 937 -71. 8	4, 766	1,766 -62.9	3, 498, 627	837, 137 -76. 1	969	249 -74.		

	М	ultifamily o	lwellings		Total,	all kinds of dwellin		eping	
Geographic division	Estima	ted cost		es pro- d for	Estima	ated cost		illies pro- led for	
	June, 1931	June, 1932	June, 1931	June, 1932	June, 1931	June, 1932	June, 1931	June, 1932	
New England. Middle Atlantic. East North Central. West North Central. South Atlantic. South Central. Mountain and Pacific.	\$216, 800 9, 935, 300 345, 000 132, 125 316, 200 29, 975 843, 370	\$27,000 1,337,300 24,000 9,500 128,000 8,465 199,500	85 2, 756 97 83 126 24 487	10 265 3 4 63 6 88	\$3, 036, 670 19, 037, 886 4, 901, 500 2, 214, 023 3, 011, 500 1, 793, 474 5, 402, 277	\$973, 335 3, 125, 815 1, 320, 295 820, 245 1, 153, 365 404, 474 1, 559, 310	594 4, 294 987 592 668 575 1, 683	235 684 275 223 298 192 547	
Total Per cent of change	11, 818, 770	1, 733, 765 -85. 3	3, 658	439 -88. 0	39, 397, 330	9, 356, 839 -76. 3	9, 393	2, 454 -73. 9	

Decreases were shown in the estimated cost and in the number of family dwelling units provided in each of the different classes of housekeeping dwellings, comparing permits issued in June, 1932, with permits issued in June, 1931.

Details by Cities

Table 10 shows the estimated cost of new residential buildings, of new nonresidential buildings, of total building operations, together with the number of family dwelling units provided in new buildings, for each of the 354 identical cities from which reports were received for May, 1932, and June, 1932.

No reports were received from Hartford and New London, Conn.; Bangor, Me.; Nanticoke and Norristown, Pa.; Anderson, Ind.; Port Huron, Mich.; University City, Mo.; Lynchburg, Va.; Fort Smith, Ark.; Ashland, Ky.; Baton Rouge, La.; Muskogee, Okla.; Galveston,

Laredo, and Houston, Tex.; and Butte, Mont.

Permits were issued for the following important building projects during the month of June, 1932: In New Haven for a dormitory at Yale University to cost \$600,000; in Worcester for a church to cost \$250,000; in the Borough of Queens for a school building to cost \$600,000; in Rochester for a school building to cost \$356,000; in Scranton for a school building to cost over \$1,000,000; in Cincinnati for a school building to cost \$325,000; in Austin for a State highway building and city fire station to cost over \$400,000; in Seattle for a public school building to cost \$235,000, and for a law school building at the University of Washington to cost over \$350,000.

Contracts were awarded by the Supervising Architect of the Treasury Department for a post office and Federal courthouse in Newark, N. J., to cost nearly \$3,000,000; for a post office in Jackson, Mich., to cost over \$300,000; for a post office in Sioux City, Iowa, to cost over \$550,000; for a Department of Justice Building in Washington,

D. C., to cost \$7,667,000.

The Veterans' Administration awarded a contract for a hospital in Des Moines, Iowa, to cost nearly \$900,000.

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TABLE 10.—ESTIMATED COST OF BUILDINGS FOR WHICH PERMITS WERE ISSUED IN PRINCIPAL CITIES, MAY AND JUNE, 1932

New England States

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	New	residential	buildin	gs		residential dings	Total co includir tions a	nstruction ng altera nd repair
State and city	Estima	sted cost	vided	ies pro- for in vellings	Estimated cost		Estima	ted cost
and robus	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 193;
Connecticut:		11 11	/ 1		Pirts incl			
Bridgeport	\$32, 140	\$39,750	13	14	\$8, 230	\$9,570	\$63, 390	\$62, 83
Bristol	11, 577	4,000	1	2	10, 500	2, 950	26, 849	9, 286
Greenwich	35, 900	54, 500	7	4	31, 585	29, 400	78, 735	92, 650
Meriden New Britain	18, 300 8, 000	10, 300 7, 000	í	3	8, 185 76, 675	58, 850 150	39, 799 90, 090	78, 67,
New Haven		633, 600	8	7	15, 075	19, 400	69, 165	12, 216 703, 00
Norwalk	11, 770	44, 600	4	11	1, 830	21, 960	33, 915	84, 34
Stamford	16, 000	9,000	5	2	570	23, 850	34, 605	42 12
Torrington	0	10,000	0	4	1,800	6, 730	13, 125	17, 42
Waterbury West Hartford	8, 500	6, 700	3	4	4, 050	3,775	25, 300	31,800
Maine:	52, 400	21, 800	7	3	3, 235	23, 655	62, 491	52, 944
Lewiston	8,000	1,600	2	1	10, 200	13, 000	18, 700	14, 600
Portland	48, 350	12, 600	11	4	41, 331	3, 050	113, 273	33, 746
Massachusetts:					TINDIEG.	0.010.00		
Arlington	84, 300	23, 500	12	4	2, 925	22, 990	90, 365	47, 771
Boston 1	3, 500 167, 600	23, 500 156, 200	40	30	3, 355 72, 650	2, 870 568, 755	12, 200 562, 349	35, 00
Brockton	3, 300	6, 500	1	2	54, 020	12, 125	67, 011	1, 052, 03, 29, 189
Brookline	45, 500	90, 500	4	10	1, 335	6, 550	225, 542	193, 100
Cambridge	. 0	0	0	0	10, 110	8, 330	41, 900	30, 470
Chelsea	1 700	6,000	0	1	1,000	2, 180	7, 810	16, 20
Chicopee Everett	4, 500 6, 000	0	1	0	3, 250 300	4, 375	17, 475	10, 773
Fall River	33, 250	2,000	2	0 2	5, 519	1,417	11, 450 79, 544	6, 430 10, 89
Fitchburg	8,700	6, 200	2	2	2, 905	3, 315	16, 515	22, 54
Haverhill	1, 500	0	2	0	3, 720	4, 117	7, 325	8, 21
Holyoke	14,000	10, 500	1	2	3, 750	2, 150	25, 550	15, 85
Lawrence	0 700	2, 500	0	1	10,600	8, 300	14, 250	22, 36
Lynn	2, 700 12, 000	10, 200 14, 450	3	2 5	6, 005 4, 970	1, 080 4, 642	19, 695 33, 640	18, 010 32, 75
Malden	11, 300	16, 200	3	4	2, 200	690	40, 807	22, 30
Medford	22,000	31,000	6	8	2, 575	70, 950	35, 385	118, 78
New Bedford	0	0	0	0	11, 025	7, 125	20, 525	14, 42
Newton	68, 200	36, 000	7	4	91, 700	89, 815	181, 315	134, 38
Pittsfield	16,000	20, 500	5	4	23, 525	8, 950	53, 650	38, 87
Quincy Revere	30, 186	23, 800 8, 800	7 0	8	11, 795 450	157, 980 4, 075	69, 266 11, 900	192, 38 19, 02
Salem	6, 200	14, 500	1	3	4, 850	186, 675	30, 869	211. 05
Somerville	0	0	0	0	2, 415	46, 745	15, 268	64, 72
Springfield	34, 850	29, 900	12	11	383, 200	12, 700	433, 350	163, 13,
Taunton	6,000	1, 275	2 2	3	23, 771	1,068	34, 798	9, 20
Waltham	8, 800	14, 250		7	19, 935	1, 400	30, 903	18, 62
Watertown Worcester	65, 300	15, 500 48, 600	15	13	3, 600 5, 635	39, 000 261, 665	6. 640 108, 529	58, 21, 330, 83
New Hampshire:	00, 000	10,000	10	10	0, 000	201, 000	100, 020	000, 000
Concord	2,000	9,000	1	3	14, 300	1,700	21, 500	14, 400
Manchester	21, 200	23, 060	10	12	2, 660	2, 590	41, 253	32, 694
Rhode Island:	4 000				470	700	F 007	1 000
Central Falls	4, 200 23, 800	24, 800	8	6	450 131, 990	9, 030	5, 225 158, 635	1, 600 39, 970
East Providence	21, 000	14, 150	5	4	18, 330	1, 260	55, 836	28, 71
Newport	12, 600	7,000	3	1	3, 500	2, 400	22, 832	25, 64,
Pawtucket	7, 800	22, 500	2	8	3, 980	1, 220	28, 060	26, 56
Providence	37, 300	42, 300	9	10	43, 650	25, 200	177, 575	144, 46
Woonsocket	18,600	8,000	7	1	1, 560	1, 255	123, 890	9, 776 4, 156
Vermont: Burlington	15, 000	3, 000	3	1	4, 175	600	21, 750	4, 10
Total	1, 099, 123	1, 621, 635 +47. 5	249	243 -2.4	1, 210, 951	1, 804, 859 +49, 0	3, 631, 819	4, 511. 200 +24.

¹ Applications filed.

TABLE 10.—ESTIMATED COST OF BUILDINGS FOR WHICH PERMITS WERE ISSUED IN PRINCIPAL CITIES, MAY AND JUNE, 1932—Continued

Middle Atlantic States

100	New	residential	buildin	gs		residential lings	includir	nstruction, ng altera- nd repairs
State and city	Estima	ted cost	vided	ies pro- for in wellings	Estima	ted cost	Estimated cost	
	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932
New Jersey:								
Atlantic City	0	0	0	0	\$1,400	\$7,535	\$56,968	\$41,081
Bayonne	\$5,000	\$5,000	2	2	0	6, 700	13, 789	38, 200
Belleville	0	0	0	0	1,400	4, 595	5, 075	6, 885
Bloomfield	54,000	17, 500	12	5	1, 500	5, 000	58, 500	24, 500
Camden	14,000	5, 100	1	3	2, 490	12, 400	28, 457	17, 500
Clifton	28, 500	20, 500	7	7	61, 300	4, 975	92, 900	32, 075
East Orange		22,000	0	2 3	3, 550 9, 000	144, 100 4, 000	10, 815	184, 142 23, 000
Elizabeth		19,000 3,000	3 5	1	2,675	5, 100	25, 000 15, 475	15,000
Hackensack	17,000	3,000	9	0	306, 230	88, 131	336, 570	98, 288
Hoboken		15, 000	2 0	6	000, 230	53, 800	23, 355	82, 711
Irvington		12,000	3	4	8, 015	5, 800	24, 675	22, 525
Jersey City	14, 000	0	3	Ô	94, 190	30, 965	124, 145	79, 625
Kearny	0	5, 500	0	2	1, 250	1, 360	5, 400	7, 585
Montclair.	22,000	8,000	1	1	1, 195	84, 335	34, 860	101, 662
Newark	11,500	66, 850	2	9	34, 735	3, 040, 385	106, 113	3, 240, 015
New Brunswick	0	0	0	0	1, 160	1, 550	10, 195	7, 400
Orange	0	0	0	0	6, 625	1, 452	18, 740	12, 832
Passaic		18, 700	0	4	5, 070	2, 155	42, 660	42, 905
Paterson Perth Amboy	7,000	2, 600	2 0	2	383, 363	33, 598	428, 116	81, 739 11, 650
Plainfield		0	4	0	4, 175 8, 675	450 3, 400	10, 550 38, 423	8, 324
Trenton		0	2	0	2, 448	9, 030	18, 273	25, 980
Union City		0	1	ő	0	60,000	23, 330	72, 254
West New York	0	0	Ô	ő	0	0,000	1, 620	12, 140
West Orange		30, 100	2	5	1,715	3, 150	26, 314	38, 814
lew York:	22,000	00,200				9,200	,	
Albany	151, 380	76, 500	12	8	294, 600	25, 680	480, 768	151, 880
Amsterdam		32, 899	3	9	7, 230	2, 055	20, 080	35, 654
Auburn		0	3	0	7, 900	91, 925	20, 650	110, 350
Binghamton		19, 100	4	6	16, 276	5, 921	95, 374	64, 754
Buffalo		27, 200	10	12	39, 977	41, 137	179, 829	168, 401
Elmira		3,600	3	1	2, 012 384, 685	7, 215	23, 877	16, 105 18, 805
Jamestown Kingston		3, 700 13, 500	4 2	2 3	4, 350	3, 525 3, 720	403, 790 44, 642	21, 225
Lockport.	21,000	13, 300	0	ő	1, 300	0, 120	11,012	21, 220
Mount Vernon	25, 500	36, 800	3	5	4,737	189, 675	54, 822	237, 375
Newburgh	13, 000	0,500	2	0	31, 500	3, 600	51, 150	7, 775
New Rochelle	19, 900	51, 500	2	8	3, 250	5, 125	39, 220	70, 298
New York City-	1912					TOTAL PLANT		
The Bronx 1	271, 950	256, 950	66	61	74, 780	57, 850	614, 695	559, 955
Brooklyn 1	309, 500	267, 850	58	60	530, 360	461, 170	1, 383, 631	1, 280, 169
Manhattan 1	0	1, 150, 000	0	207	2, 070, 100	402, 972	2, 791, 239	2, 295, 058
Queens 1	440, 940	274, 570	115	79	967, 422	911, 134	1, 665, 764	1, 505, 674
Richmond 1	39, 150	81, 200	18	29	624, 485	85, 155	694, 446	248, 745
Niagara Falls	21,000	6, 500	2	1	48, 402	173, 665	104, 895	232, 193 43, 690
Poughkeepsie Rochester	24, 000	5, 000 5, 000	2 7	1	4, 050 32, 877	3, 350 392, 100	37, 615 127, 964	431, 975
Cahanastal	31, 340 21, 600	17, 200	5	2 7	5, 670	35, 531	72, 308	74, 984
Syracuse	46, 900	38, 300	10	9	65, 270	7, 560	142, 940	128, 312
Troy	48, 550	27, 850	6	6	62, 475	8, 925	116, 625	55, 135
Utica	42,000	25, 200	8	7	3,670	2,000	54, 100	61,060
Watertown	8,000	1,500	1	1	2, 280	2,088	17, 399	.10, 810
White Plains	7,000	82, 500	1	10	15, 250	12,000	29, 715	102, 409
Yonkers	123, 500	98, 300	22	15	20, 301	60, 350	223, 976	196, 528
ennsylvania:	OF STREET	2012				000		
Allentown	2,000	0	1	0	5, 400	2, 185	18, 775	13, 040
Altoona	13, 600	2,800	2	3	3, 273	3, 454	30, 739	11, 322
Bethlehem	0	10, 500	0	2	500	600	8, 450	11, 638
Butler	0	0	0	0	250	185	1,820	1, 320 49, 418
Chester	0	0	0	0	2,575	49, 018	4, 875 2, 210	252, 872
Easton Erie	32,000	27, 450	8	0	405 8, 662	249, 842 7, 565	56, 017	115, 758
Harrisburg	20,000	21, 400	3	7 5 9	6, 175	2, 325	39, 265	33, 865
	19, 198	38, 421	4	0	9, 961	42,741		

Applications filed.

TABLE 10.—ESTIMATED COST OF BUILDINGS FOR WHICH PERMITS WERE ISSUED IN PRINCIPAL CITIES, MAY AND JUNE, 1932—Continued

TAB

Middle Atlantic States-Continued

	New	residential	building	ţs.	New nonr	nstruction ng altera nd repair		
State and city	Estima	ted cost	Families provided for in new dwellings		Estimated cost		Estimated cost	
	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 193
Pennsylvania—Con.		-						
Johnstown	\$800	0	1	0	\$4,735	\$18,097	\$8, 330	\$19,62
Lancaster	0	\$7,000	0	2	3,700	250	21,060	22, 61
McKeesport	0	3, 300	0	2	1, 145	2,800	12, 119	43, 38
New Castle	0	0	0	0	12, 930	910	13, 240	1,48
Philadelphia	225, 500	117, 900	63	31	386, 025	293, 320	796, 264	680, 29
Pittsburgh	89, 900	31, 400	18	8	2, 511, 015	81, 455	2, 692, 378	171, 94
Reading	0	0	0	0	5, 480	3, 600	23, 552	17, 65
Scranton	9, 500	10, 300	3	3	50, 923	1, 157, 425	83, 854	1, 225, 59
Wilkes-Barre	2, 600	24, 875	0	9	3, 760 235	68, 995 700	27,770	103, 66
Wilkinsburg Williamsport	8,000	3, 200	3	0 2	36, 225	967	885 86, 006	5, 10
York	13, 500	3, 800	2	1	1, 325	3, 430	21, 985	21, 43 16, 97
Total	2, 508, 543	3, 155, 915 +25, 8	530	689 +30, 0	9, 320, 769	8, 599, 258 -7, 7	15, 085, 498	15, 365, 00 +1.

East North Central States

Illinois:	0	0	0	0	\$10, 200	\$2,015	017 747	er 010
Alton	0			0			\$17, 547	\$5, 219
Aurora		0	0	0	2, 560	6, 339	9, 458	12, 169
Belleville	\$15,700	\$11,800	5	3	575	4, 100	20, 275	16, 100
Berwyn	0	0	0	0	3, 125	1, 381	6, 275	3, 081
Bloomington	3,000	5,000	1	1	2, 500	2,500	5, 500	8, 500
Chicago	95, 250	96, 400	23	16	993, 448	119, 146	1, 572, 785	431, 699
	00, 200	6, 500	0	2	1, 150	1, 890	4, 050	9, 465
Cicero		1						
Danville	0	0	0	0	265, 600	177, 876	277, 979	181, 026
Decatur	9,000	0	2	0	57, 050	710	71, 445	2, 525
East St. Louis	15, 250	1,500	5	4	14, 350	5, 250	41, 342	8,600
Elgin	19,000	14, 700	4	3	10, 550	1, 437	37, 065	21, 846
Evanston	16,000	0	2	. 0	5,000	5,000	51, 250	37,000
Granite City	0	. 0	2 0	0	0,000	200	01, 200	200
	0 1						0	
Joliet	0.	0	0	0	400	99,000	6, 200	112, 239
Maywood	7,000	0	1	0	311	1, 475	8, 681	2, 425
Moline	12,800	0	2	0	2, 415	1, 900	17, 226	16, 799
Oak Park	. 0	58, 000	0	5	0	2,050	48, 425	63, 640
Peoria	55, 900	20, 100	13	7	9,000	8, 400	76, 500	40, 155
	0,500	0	0	0	1, 985	425	3, 660	1, 160
Quincy		0						
Rockford	3, 000		1	0	2, 625	1, 250	7, 955	4, 655
Rock Island	3,000	4, 500	1	3	1, 475	400	14, 054	17, 235
Springfield	14, 150	8, 200.	7	2	8, 440	80, 525	33, 422	109, 558
Waukegan	4,000	6,000	1	1	8,000	13, 300	14, 450	21,000
Indiana:	4,000	-,		. 1	,		24,200	,
East Chicago	0	0	0	0	13, 637	3, 450	15, 387	4, 650
	0	3, 200	ő	1	1, 875	1, 200	11, 171	14, 392
Elkhart								
Evansville	7, 200	4, 100	2	2	98, 760	26, 043	112, 418	52, 650
Fort Wayne	23, 800	9, 190	4	4	6, 760	127, 487	43, 907	142, 115
Gary	1,000	1,000	1	1	1, 235	200	3, 635	1, 875
Hammond	0	0	0	0	2,500	40, 475	5, 220	46, 873
Indianapolis	28, 450	122, 150	6	10	675, 107	46, 025	757, 206	271, 754
T-l-	20, 400	122, 100	0	0	400	2, 635	11, 035	3, 245
Kokomo								
Lafayette	8, 200	0	4	0	0	0	8, 200	3, 690
Marion	1,000	0	1	0	5, 165	450	8, 625	3, 375
Michigan City	0	6, 400	0	3	2,500	400	2,600	88, 050
Mishawaka	3, 500	0	1	0	500	3, 625	4, 400	5, 130
Muncie	0,000	5, 630	Ô	3	1,037	3, 097	4, 593	11, 643
			0	ő		850	27, 100	5, 200
Richmond	0	0			6, 800			
South Bend	2, 500	11, 150	1	3	8, 390	6,070	27, 635	25, 310
Terre Haute	7, 500	0	3	0	2,912	11, 510	23, 815	26, 693
Michigan:	100	1000	- 1		Charles and	me S		
Ann Arbor	37, 550	24, 500	6	4	2,725	1, 195	46, 655	44, 691
	17, 500	24,000	3	o l	603, 190	14, 785	626, 945	17, 695
Battle Creek								20, 373
Bay City	10, 725	9, 500	6	3	1,880	2, 175	21, 613	20, 373
Dearborn	18, 500	14, 300	6	3	20, 405	34, 371	44, 880	53, 471

TABLE 10.—ESTIMATED COST OF BUILDINGS FOR WHICH PERMITS WERE ISSUED IN PRINCIPAL CITIES, MAY AND JUNE, 1932—Continued

East North Central States—Continued

	New	residential	building	gs	New nonr	residential lings	includin	**Estimated cost** [Say, 1932] June, 1932 **Seo, 432 **Seo, 432 **Seo, 432 **Seo, 433 **Seo, 433 **Seo, 434 **Seo, 435 **Seo, 436 **Seo, 437 **Seo, 437 **Seo, 438 **Seo, 438		
State and city	Estima	ted cost	vided	es pro- for in vellings		ted cost	Estimat	ed cost		
- H	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932		
Michigan—Contd.				*						
Detroit	\$99,850	\$189,650	23	36	\$3 07, 356	\$215, 366	\$560, 432	\$543, 903		
Flint	4, 792	5, 820	1	2	5, 632	16, 074				
Grand Rapids	13, 100	13, 300	5	4	16, 345	75, 315		101, 420		
Hamtramck	0	0	0	0	4,000	525		3, 435		
Highland Park		0	1	0	455 2, 408	308, 951		219 666		
Jackson Kalamazoo		0	3	0	687	2, 320		11 350		
Lansing		5,000	0	1	3, 575	4, 340		11, 569		
Muskegon		0	1	0	2,835	4, 985				
Pontiac	0	0	0	0	0	1,888	0	2, 399		
Royal Oak	1,500	0	2	0	150	475		1, 078		
Saginaw	8,000	1,000	4	1	72, 597	4, 622				
Wyandotte	1,800	4, 950	1	2	550	216, 700	9, 100	232, 45		
hio: Akron	37, 500	34, 500	5	8	9, 615	22, 990	63 400	79.560		
Ashtabula		6, 200	0	3	1, 220	150				
Canton		0	2	0	13, 830	655				
Cincinnati	280, 850	178, 100	50	29	66, 935	394, 035		649, 630		
Cleveland	58, 800	64, 500	12	14	251, 650	132, 037				
Cleveland Heights.	36, 000	11, 800	6	2	425	940				
Columbus	26, 500	25, 000	4	5 6	92, 950	117, 050				
Dayton East Cleveland	20, 000	22, 875 0	6 0	0	20, 104 2, 150	24, 619 4, 000				
Elyria		1, 500	0	1	865	4, 850		25, 52		
Hamilton	3,000	0	1	0	7, 115	500		4, 43		
Lakewood	21, 300	10,000	3	1	6, 125	1,820		14, 880		
Lima	0	0	0	0	1,550	850	3, 325			
Lorain	10 000	0	0	0	785	1,725	1,050			
Mansfield		8,000	2 0	1 0	3, 775 685	5, 979 13, 150	20, 914			
Marion Massillon		600	0	1	590	335	1 470	1 56		
Midaletown		0	0	o	21, 750	1,600	24, 080	4, 78		
Newark	8,050	4, 500	2	3	3, 200	1, 150				
Norwood		7,000	1	1	600	650				
Portsmouth	0	4, 500	0	1	1, 460	6,600				
Springfield Steubenville	3, 800	6, 550	2	4 0	2, 976	5, 305 1, 000				
Toledo	3, 000 31, 050	2,075	6	2	650 10, 352	6, 820				
Warren	01,000	5, 700	0	ĩ	720	1,760	4, 160	9, 90		
Youngstown	0	15, 725	0	3	9, 757	3, 482	14, 147	24, 33		
isconsin:								1		
Appleton	37, 600	23, 830	9 7	5	11, 020			63, 03		
Eau Claire	13, 800 3, 500	14, 600	í	8 2	6, 100	10, 400 960	28, 930	29, 23 13, 98		
Fond du Lac Green Bay	21, 500	10, 900 18, 700	9	7	1, 115 7, 035	5, 695	5, 825 37, 785	35, 48		
Kenosha	0	10,000	0	3	2, 330	157, 065	8, 330	170, 20		
Madison	99, 600	43, 600	16	8	4, 410	8, 050	122, 755	64, 44		
Milwaukee	116, 500	91, 300	26	18	27, 101	60, 464	324, 858	224, 91		
Oshkosh	6, 800	. 0	4 2	0	8, 370 2, 170	3, 190	29, 000	10, 05		
RacineSheboygan	9,000	23, 700	2	5	5, 395	1, 125 2, 905	19, 110 26, 013	7, 22 40, 85		
Superior	7, 775	11,000	5	3	765	960	14, 615	22, 67		
West Allis	6,000	0	1	0	3, 705	2, 655	12, 460	4, 29		
Marie San Comment			-							
Totaler cent of change	1, 492, 092	1, 320, 295 -11. 5	339	275 -18. 9	3, 884, 477	2, 759, 434 -29. 0	7, 123, 366	5, 520, 77		
		West A	Torth C	Central	States					
wa:	AF 000	A1 000			an aka	044.000	20.100	AF1 C 2		
Burlington Cedar Rapids	\$5,000 29,325	\$4,000 13,550	8 4	6	\$2,600 13,555	\$44, 850 5, 695	\$9, 100 70, 639	\$51, 35 30, 07		
Council Bluffs	17, 550	*0	4	0	3, 997	1, 400	26, 617	2, 50		
Davenport	23, 600	10, 800	7	3	4, 815	2, 750	38, 969	27, 59		

TABLE 10.—ESTIMATED COST OF BUILDINGS FOR WHICH PERMITS WERE ISSUED IN PRINCIPAL CITIES, MAY AND JUNE, 1932—Continued

TAE

West North Central States-Continued

	New	residential	building	gs	New nonresidential buildings Total construincluding tions and in the second se			
State and city	Estima	ted cost	vided	ies pro- for in wellings	Estima	ted cost	Estimat	ed eost
	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932
Iowa—Continued.								
Des Moines	\$37, 700	\$74, 400	11	17	\$20, 435	\$992, 715	\$80, 125	\$1, 083, 320
Dubuque		0	4	0	2, 200	7, 807	27, 582	15, 313
Ottumwa		11,750	6	3	351, 350	6,000	374, 100	27, 000
Sioux City.		27, 300	13	8	11, 420	558, 920	77, 270	
Waterloo	15, 800	3, 600	4	2	12, 040	1, 600	28, 765	718, 745
	10, 000	3,000	3	-	12, 040	1,000	20, 100	17, 775
Kansas:	2 050	700			0.000	118	0.007	00 000
Hutchinson			3	1	2, 660	115	9, 667	28, 297
Kansas City	2, 550	3, 500	4	1	21, 045	1,855	25, 920	10, 545
Topeka	22, 975	5, 100	11	3	5, 770	6, 660	31, 900	22, 513
Wichita	42, 350	5, 400	14	4	737, 832	12, 095	790, 737	36, 708
Minnesota:						Santa		
Duluth	20, 950	15, 800	12	11	7, 365	12, 735	55, 393	114, 861
Minneapolis	236, 900	139, 200	59	37	955, 318	30, 315	1, 280, 888	222, 325
St. Paul	100, 680	130, 320	21	23	49, 696	73, 155	250, 179	253, 186
Missouri:								
Joplin	3,000	0	0	0	26, 550	1, 575	32, 450	2, 82
Kansas City	58, 500	46, 000	14	11	49, 500	16, 200	127, 900	240, 600
Springfield	32, 800	9, 650	9	4	41, 675	32, 375	83, 900	44, 02
St. Joseph	3, 000	13, 500	1	4	76, 460	3, 425	88, 435	21, 27
St. Louis	201, 900	182, 300	55	43	51, 370	157, 020	349, 365	462, 063
Nebraska:	201, 000	102, 000	00	30	01,010	101, 020	010, 000	102, 000
Lincoln	16,000	28, 800	7	9	4, 790	21, 360	26, 715	52, 410
Omaha	85, 000	49, 575		15	32, 470	219, 015	155, 633	
			28					278, 229
North Dakota: Fargo.	15, 800	25, 300	4	6	5, 755	2,865	32, 592	31, 86
South Dakota: Sioux	00 101	10 700		10	4 000	10 000	44 000	00 -01
Falls	38, 125	19, 700	15	10	4,000	10, 272	44, 625	30, 525
Total	1, 081, 855	820, 245 -24, 2	315	223 -29, 2	2, 494, 668	2, 222, 774 -10, 9	4, 119, 466	3, 825, 930

South Atlantic States

Delaware: Wilming-	\$70 F00	210 000	10		en e00	200 750	000 1FC	****
District of Columbia:	\$70, 500	\$16,000	19	4	\$7,620	\$36, 753	\$90, 158	\$66, 946
Washington	552, 400	618, 600	88	138	22, 343, 270	9, 904, 982	23, 059, 800	10 880 554
Florida:	302, 400	010, 000	00	100	22, 343, 210	3, 504, 502	20, 000, 000	10, 000, 001
Jacksonville	37, 950	39, 675	14	7	64, 529	13, 890	143, 864	86, 987
Miami	4, 200	17, 270	4	10	19, 520	27, 133	92, 664	80, 939
Orlando	1, 200	7, 000	0	3	500	0	6, 990	14, 803
	17, 125	19, 500	11	10	26, 105	3,066	58, 329	77, 644
Pensacola	1,000	800	3	1	1,000	2, 200	21, 600	20, 400
St. Petersburg			5	3				
Tampa	3, 050	2, 600	0		23, 003	8, 330	41, 813	28, 497
West Palm Beach.	6, 363	9, 112	1	4	12, 613	1, 535	26, 917	16, 824
Georgia:	10 000	47 000	10		45 050	117 000	110 040	444 000
Atlanta	18, 900	47, 000	13	15	45, 052	115, 380	116, 040	444, 200
Augusta	14, 050	12, 620	7	7	2, 300	0	24, 229	21, 709
Columbus	7, 080	20,000	2	3	425	23, 650	9, 196	48, 875
Macon	0	3, 550	0	2 2	0	5, 600	19, 459	21, 518
Savannah	0	2, 200	0	2	10, 545	690	13, 020	5, 359
Maryland:								
Baltimore	189, 000	125, 000	44	25	973, 981	127, 600	1, 769, 881	806, 990
Cumberland	0	4, 500	0	2	2,760	168, 897	3, 555	173, 997
Hagerstown	0	9,000	0	2	660	2, 400	2, 410	12, 450
North Carolina:								
Asheville	1, 825	0	2	0	790	463	4,970	1,985
Charlotte	43, 300	23, 990	9	5	64, 955	1, 425	117, 195	31,716
Durham.	12,000	7, 500	3	5	87, 225	5, 750	109, 625	23, 250
Greensboro	5, 250	700	3	1	1, 705	1, 385	16, 759	8,857
High Point	14, 000	0	3	-0	600	2, 100	14, 740	6,600
Raleigh	5, 710	500	6	1	13, 900	125	22, 610	1, 175
Wilmington	1, 500	0	1	0	1,900	0	8, 050	3,700
Winston-Salem	44, 000	2,000	5	1	10, 315			

Table 10.—ESTIMATED COST OF BUILDINGS FOR WHICH PERMITS WERE ISSUED IN PRINCIPAL CITIES, MAY AND JUNE, 1932—Continued

South Atlantic States-Continued

	New	residential	building	ζS		residential lings		sed cost June, 193: \$24, 64 85, 67 8, 31 3, 11 28, 03 127, 59 4, 28, 17 5, 25 28, 96 13, 269, 39 - 49 \$40, 18 41, 87 28, 58 31, 29 \$41, 87 28, 58 31, 29 5, 18 13, 20 73, 50 2, 30 1, 96 15, 21 145, 99 47, 98 52, 41 97, 66	
State and city	Estima	ted cost	vided	les pro- for in wellings	Estimated cost		Estima	ted cost	
	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	
South Carolina:									
Charleston	\$1, 175	0	3	0	\$3, 575	\$6, 435	\$13, 181	\$24, 649	
Columbia	19,000	\$5,000	16	2	21, 725	76, 399	53, 405	85, 679	
Greenville Spartanburg	9, 000	3, 800	2	0 2 2 2 0	3, 530	540	34, 125		
Spartanburg.	450	0	1	0	50	0	2, 470	3, 11	
Virginia:	0.000	17 100		-	0 500	0.000	11 000	00 00	
Newport News Norfolk	2, 900 58, 400	15, 100 82, 350	23	7 22	2, 580 4, 800	9, 350 15, 785	11,986		
Petersburg	08, 400	02, 330	0	0	1,895	2, 455	102, 465 2, 725	4 20	
Portsmouth		8, 400	4		323	1, 250	24, 258		
Richmond.		60, 500		15		26, 160	174, 277		
Roanoke.	5, 900	4, 700	1		370	265	9, 745		
West Virginia: Charleston		40.000			6 1				
Charleston	43, 500	12,000	14		3, 475	1, 200	51, 746	23, 189	
Clarksburg Huntington	1, 500	4, 100 500	1 0		13, 525 1, 305	1,670 1,000	16, 035 13, 725	5 950	
Parkershurg	2.600	. 0		1 0	1, 145		6, 260		
Huntington Parkersburg Wheeling	6, 600	1, 110	2	2	36, 695		55, 463	28, 96	
			200	210	09 000 470	10 040 500	00 400 470	10 000 00	
Total Per cent of change	1, 262, 178	-6. 0	326		23, 900, 478	-55. 5	20, 432, 470	13, 209, 39 —49.	
		Sout	h Cent	tral St	ates				
Alabama:								1	
Birmingham	\$12, 500	\$9,400			\$24, 104	\$4, 450	\$72, 717	\$40, 18	
Mobile	6,000	9, 100	6	2	51, 000	5, 900	71, 803		
Montgomery	13, 800	10, 200	10		1, 975	4, 566	25, 340	28, 58	
Mobile	350	4, 915	1	5	7, 400	3, 365	18, 499	31, 20	
Covington	0	0	0	0	2, 880	600	12, 552	5. 18	
Lexington	46, 300	2, 500	07	1	10 200	225	83, 737	13, 20	
Louisville	25, 600	19,000	8	5	31, 459	18,600	92, 044	73, 50	
Covington Lexington Louisville Newport Paducah	0	750	0	0	6, 200	350	7, 500	2, 30	
PaducahLouisiana:	0	750	0	2	15, 000	0	16, 400	1, 95	
Monroe	1 600	0	3	0	0	0	2,700	15. 21	
New Orleans	1,600 29,100	71, 638	25	25	9, 545		81, 354		
Shreveport	14, 475	16, 575	10	10	4, 133	1, 879	38, 968	47, 98	
Mississippi: Jackson	1,000	0	1	0	2, 300	39, 000	13, 400		
Oklahoma:		10,414							
Enid.	0	0 000	0	0	1 020 075	9, 125	1, 850	9, 97	
Oklahoma City Okmulgee	34, 500	26, 000	11	8	1, 039, 075	101, 161	1, 099, 705 1, 150	200, 71	
Tulsa	24, 100	0	5	0	6,042	79, 059	37, 867	97, 66	
Tennessee:	24, 100				0,012	,	0.,00.	0.,00	
Chattanooga	5, 500	2, 500	4	1	869, 100	35, 100	889, 871	60, 12	
Johnson City	10, 800	0	5	0	4,700	450	15, 600	450	
Knoxville	8, 320	8, 133	2 5	5	948, 750	64, 082	963, 400	76, 83	
Memphis	4, 680	24, 700		9	25, 610	28, 990	87, 620	119, 210 57, 314	
Nashville	36, 800	13, 300	15	0	258, 025	25, 565	306, 969	01, 01	
Amarillo	9, 150	6, 530	5	3	45, 485	5,040	63, 000	16, 12	
Austin	57, 295	30, 385	29	20	128, 824	461, 893	240, 697	506, 569	
Beaumont	5, 700	0	3	0	4, 820	10, 763	37, 984	12, 19	
Brownsville	0	0	0	0	200	2, 850	1, 515	3, 52	
Dallas	82, 300 2, 250	20, 600	52	18	33, 258	40, 926 2, 756	177, 163 11, 863	100, 834 22, 578	
El Paso	43, 500	5, 800 82, 600	17	30	2, 810 17, 900	62, 600	84, 625	169, 300	
Port Arthur	43, 500	02,000	0	0	980	1, 305	6, 305	4, 18	
San Angelo	0	15, 000	0	1	200	123,650	2, 755	138, 70	
	41,860	6, 048	24	14	10, 213	23, 449	80, 479	47, 62	
San Antonio		11 200	6	6 .	536	2, 935	24, 521	19, 43	
Waco	6, 100	11, 300				7 100	10 482		
	6, 100 7, 500	7, 500	1	1	3, 573, 064	7, 100	10, 482	25, 716	

TABLE 10.—ESTIMATED COST OF BUILDINGS FOR WHICH PERMITS WERE ISSUED IN PRINCIPAL CITIES, MAY AND JUNE, 1932—Continued

B

Mountain and Pacific States

	New	residential	buildin	gs		residential dings	Total consinctions ar	struction, ng altera- nd repairs
State and city	Estima	ted cost	vided	ies pro- for in wellings	Estima	ted cost	Estima	ted cost
	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932	May, 1932	June, 1932
Arizona:								-
Phoenix	\$7, 180 12, 650	\$14,000 14,950	5 6	6	\$34, 630 2, 105	\$6,800 3,475	\$60, 505 21, 029	\$24, 50° 29, 44°
Alameda Alhambra Bakersfield	21, 000 6, 450	7, 500 17, 300 2, 500 47, 800	1 8 2	11 1	12, 450 5, 350 635	53, 845 400 675	20, 777 27, 275 15, 215	144, 474 28, 50 12, 16
Berkeley Fresno Glendale	24, 150 68, 500	11, 450 45, 750	14 6 16	9 3 12	9, 525 5, 948 11, 645	25, 700 7, 750 23, 335	78, 878 58, 207 91, 600	104, 77, 36, 70 77, 16
Huntington Park Long Beach Los Angeles	26, 700 557, 157	6, 800 40, 200 509, 790	13 11 195	3 15 187	2, 005 138, 020 313, 506	17, 530 230, 745 189, 220	25, 570 187, 470 1, 174, 039	25, 45 305, 53 1, 045, 91
Oakland Pasadena Riverside	35, 000 13, 350	67, 900 30, 100 13, 600	20 9 4 9	14 6 2	193, 009 42, 784 1, 430	94, 499 18, 104 1, 725 15, 550	323, 018 105, 063 19, 119	208, 62 76, 52 23, 74
San Bernardino San Diego San Francisco	4, 500 76, 750	5, 000 1, 000 62, 850 305, 985	1 28 66	1 26 106	361, 071 7, 400 19, 030	3, 005 11, 670	438, 493 18, 441 135, 201 865, 009	72, 68 8, 16 149, 13
San Jose Santa Ana Santa Barbara	12, 300 26, 150	13, 750 0 16, 300	5 7 8	4 0 4	169, 563 755 2, 000 3, 505	270, 924 211, 320 1, 900 4, 065	24, 255 37, 056 42, 115	802, 45 246, 52 5, 02 27, 96
Santa Monica Stockton Vallejo	21, 350	17, 000 39, 100 18, 200	7 10 2	7 4 7	1, 750 357, 406 2, 190	1, 545 2, 985 1, 275	25, 370 401, 216 11, 172	22, 42 67, 02 21, 95
Colorado: Colorado Springs	3, 000	1, 475	1	2	2,742	4, 390	20, 307	10, 92
Pueblo Montana: Great Falls_	347, 250 5, 800 3, 700	87, 500 0 8, 475	48 4 2	24 0 5	84, 305 3, 840 4, 250	27, 200 11, 610 17, 050	502, 235 14, 170 11, 135	178, 40 15, 11 27, 97
New Mexico: Albuquerque	5, 000	15, 700	3	8	8, 075	13, 735	38, 007	43, 57
Oregon: Portland	96, 060 5, 800	83, 950 6, 300	20 4	21 3	297, 565 4, 615	20, 790 377	447, 874 29, 296	160, 19 10, 07
SalemUtah: Ogden	7, 000	12,000	3	7	8, 110	2, 850	35, 955	26, 25
Salt Lake City	33, 600	16, 200	10	- 6	20, 030	16, 839	63, 365	45, 53
Bellingham Everett	* 10,500	0	5 2	0	1, 400 200	505 2, 550	14, 372 15, 467	4, 18 7, 78
SeattleSpokaneTacoma		52, 850 6, 135 13, 000	34 11 6	29 5 11	419, 025 4, 115 4, 365	447, 033 8, 385 5, 705	542, 506 56, 650 41, 625	598, 75 24, 08 46, 63
Total		1, 612, 410 -23. 7	606	554 -8.6	2, 560, 349	1, 777, 061 -30, 6	6, 039, 057	4, 766, 31 -21.

Hawaii

Honolulu Per cent of change	\$128, 761	\$119, 884 -6. 9	77	65 -15. 6	\$13, 184	\$174, 884 +1, 226. 5	\$168, 316	\$316,023 +87.8
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HOUSING 331

Building Permits Issued in Cities of the United States Having a Population of 100,000 or Over, First Half of 1932

General Summary

THE Bureau of Labor Statistics has been publishing data semiannually covering building permits issued in cities of the United States having a population of 100,000 or over since 1922. Reports were received for both the first half of 1931 and the first half of 1932 from the 94 cities which fell in this population group according to the estimate of population as issued by the Census Bureau as of July 1, 1931. The costs as shown in the table below are those stated by the prospective builder when applying for his permit to build. They include the cost of the building only; no land costs are included. Only buildings within the corporate limits of the cities enumerated are shown. During the first half of 1932, permits were issued for building operations in these 94 cities to cost \$245,467,403. 60.6 per cent less than indicated expenditures during the first half of The estimated cost of new residential buildings decreased 76.0 per cent comparing permits issued during the first half of 1932 with those issued during the first half of 1931. During the first half of 1932, 14,229 family dwelling units were provided in new residential buildings. This is a decrease of 73.5 as compared with the first half of 1931. Indicated expenditures for new nonresidential buildings decreased 52.6 per cent comparing the two periods under

Although most of the 94 cities showed a decrease in the estimated cost of total building operations, there were a few exceptions. Atlanta, Ga.; Chattanooga, Tenn.; Duluth, Minn.; Fall River, Mass.; Grand Rapids, Mich.; Knoxville, Tenn.; Newark, N. J.; Norfolk, Va.; Scranton, Pa.; and Washington, D. C., were the only cities showing an increase in total building operations comparing the first half of 1932 with the first half of 1931. The increase in all these cities was slight, except in the case of Washington where contracts were awarded for a number of large buildings by the Federal Government. The increase in Washington was over \$19,000,000.

The table following shows the estimated costs of the new residential buildings, new nonresidential buildings, and total building operations in 94 cities of the United States having a population of 100,000 or

over.

ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDENTIAL BUILDINGS, AND TOTAL BUILDING OPERATIONS IN 94 CITIES OF THE UNITED STATES HAVING A POPULATION OF 100,000 OR OVER, FOR THE FIRST HALF OF 1931 COMPARED WITH THE FIRST HALF OF 1932

ES'

	New	residential	buildin	ıgs				
City	Estima	Estimated cost		nilies ded for dwell- igs	New nor building mated o		Total construction, including alterations and repairs (estimated cost)	
	First half of 1931	First half of 1932	First half of 1931	First half of 1932	First half of 1931	First half of 1932	First half of 1931	First half of 1932
Akron Albany Atlanta Baltimore Birmingbam Boston ¹	\$293, 075 867, 290 603, 885 6, 556, 000 123, 555 4, 009, 460	\$115,700 627,080 274,050 1,395,000 52,160 1,069,800	62 109 262 1, 612 54 963	27 53 112 297 30 239	\$335, 369 568, 526 446, 430 4, 761, 200 909, 380 11, 112, 760	\$313, 797 499, 830 2, 251, 946 3, 123, 981 132, 909 2, 048, 724	\$1, 154, 663 1, 850, 717 1, 726, 571 15, 049, 700 1, 423, 269 17, 583, 794	\$537, 165 1, 354, 543 3, 078, 150 7, 521, 309 372, 373 6, 328, 476
Bridgeport Buffalo Cambridge Camden Canton Chattanooga		287, 940 385, 540 104, 000 19, 100 6, 950 40, 650	258 680 125 30 16 69	90 111 48 4 4 21	405, 726 3, 094, 029 368, 599 584, 951 245, 915 129, 072	71, 714 584, 158 1, 021, 265 201, 162 284, 880 983, 130	1, 679, 871 5, 856, 980 1, 658, 822 760, 241 467, 066 583, 552	6, 328, 479 463, 553 1, 386, 728 1, 465, 171 305, 348 309, 358
ChicagoCincinnatiClevelandColumbusDallas	4, 367, 850 3, 894, 890 1, 397, 700	666, 900 1, 465, 655 622, 900 164, 600 405, 169 128, 675	697 730 257 228 585 117	129 280 124 29 222 31	30, 122, 165 8, 484, 660 2, 838, 900 853, 250 651, 977	3, 155, 044 1, 746, 412 4, 906, 812 364, 300 495, 941 141, 393	37, 651, 195 13, 830, 685 7, 774, 300 2, 352, 400 2, 524, 491	1, 183, 538 5, 332, 283 3, 704, 020 6, 545, 783 965, 061 1, 366, 323
Dayton Denver Des Moines Detroit Duluth Elizabeth	2, 497, 500 640, 270 7, 708, 430 150, 286 433, 000	1, 054, 650 275, 200 1, 402, 074 63, 250 100, 000	686 169 1, 528 38 119	207 71 187 32 16	1, 280, 977 1, 002, 090 1, 236, 377 6, 753, 917 60, 900 157, 100	320, 170 1, 047, 617 4, 640, 388 238, 606 43, 800	1, 997, 144 4, 124, 090 2, 036, 176 16, 587, 346 443, 374 590, 100	378, 39 1, 812, 34 1, 483, 09 6, 948, 90 515, 92 143, 80
El Paso Erie Evansville Evansville Fall River Flint Fort Wayne	423, 633 445, 750 246, 175 8, 400 383, 890 433, 530	28, 300 173, 400 31, 700 44, 850 19, 212 62, 190	132 90 63 3 77 92	14 45 11 6 6 14	117, 820 497, 359 378, 780 195, 564 638, 034 978, 076	62, 121 82, 072 256, 628 206, 998 53, 558 1, 225, 857	684, 379 1, 236, 813 710, 610 267, 206 1, 219, 236 1, 601, 395	149, 274 421, 13 372, 92 383, 334 148, 974 1, 381, 45
Fort Worth	964, 028 109, 300 210, 950 212, 300 4, 701, 226 1, 183, 725	410, 945 16, 000 80, 706 150, 220 818, 985 425, 050	302 28 59 45 1, 135 216	165 6 21 39 318 79	2, 045, 768 607, 305 223, 975 729, 698 2, 100, 605 2, 413, 579	201, 533 3, 820 1, 150, 235 476, 984 723, 807 947, 555	3, 270, 974 817, 715 665, 315 1, 857, 829 6, 992, 074 4, 061, 803	814, 34 28, 74 1, 319, 90 1, 008, 82 1, 640, 90 1, 711, 61
Jacksonville Jersey City Kansas City, Kans Kansas City, Mo Koxville Long Beach	236, 750 269, 900 139, 600 965, 500 152, 960 1, 589, 275	180, 450 166, 200 40, 600 416, 500 93, 117 436, 785	85 69 70 231 53 600	70 47 31 111 35 169	132, 575 511, 061 267, 848 4, 401, 150 154, 979 637, 125	138, 689 295, 112 47, 085 477, 000 1, 102, 312 1, 562, 817	725, 200 1, 231, 171 447, 948 6, 296, 400 380, 551 2, 494, 615	520, 51 656, 39 113, 53 1, 210, 50 1, 228, 18 2, 229, 04
Los Angeles Louisville Lowell Lynn Memphis	10, 609, 623 701, 500 100, 150 267, 000 394, 680	4, 105, 249 204, 350 37, 800 53, 750 117, 910	3, 626 104 24 56 160	1, 473 46 12 13 55	8, 232, 815 1, 647, 545 116, 745 388, 035 708, 035	4, 762, 140 398, 075 9, 380 30, 857 624, 390	23, 096, 177 2, 724, 155 324, 295 874, 391 1, 737, 116	11, 307, 40 899, 41 91, 77 235, 90 1, 175, 33
Miami	290, 205 2, 535, 050 2, 500, 935 390, 350 1, 084, 700 68, 000	98, 510 499, 950 971, 725 197, 800 407, 750 4, 000	535 629 134 234 11	56 108 251 89 72	343, 050 2, 701, 435 3, 666, 795 919, 575 838, 147 175, 100	341, 174 441, 625 1, 310, 886 427, 165 3, 527, 804 54, 800	1, 098, 229 7, 110, 216 6, 987, 355 1, 565, 579 3, 194, 540 319, 000	657, 41 1, 629, 46 2, 743, 54 753, 43 4, 649, 21 104, 37
New Haven New Orleans New York: The Bronx 1 Brooklyn 1 Manhattan 1	27, 988, 675	199, 700 325, 542 2, 707, 290 4, 107, 650 2, 400, 000	5, 667 7, 121 1, 582	38 132 716 1,072 471	1, 351, 665 2, 841, 964 15, 876, 750 5, 104, 157 71, 901, 512	716, 975 447, 001 574, 180 5, 775, 105 14, 873, 322	2, 593, 586 3, 840, 848 41, 589, 702 40, 090, 137 98, 445, 710	1, 114, 97 1, 119, 07 4, 843, 83 13, 018, 21 21, 566, 44
Queens 1	36, 095, 700 2, 164, 060 491, 868 1, 789, 584 2, 722, 850 718, 050	5, 501, 785 538, 005 449, 175 551, 226 309, 200 393, 025	8, 405 627 129 507 643 175	1, 431 154 128 146 80 105	9, 571, 119 2, 283, 175 104, 636 2, 913, 458 9, 357, 761 1, 179, 936	3, 512, 602 1, 184, 478 345, 985 563, 727 4, 738, 796 512, 978	49, 190, 800 4, 936, 681 822, 129 5, 145, 470 12, 370, 226 2, 329, 614	10, 815, 05 2, 415, 11 973, 310 1, 440, 42 5, 254, 17 1, 026, 65
Paterson Peoria Philadelphia	165, 975 664, 950	77, 125 235, 100 1, 378, 305	38 156 562	23 59 334	377, 775 55, 092 10, 284, 440	461, 495 45, 618 5, 236, 335	879, 934 993, 477 15, 065, 440	780, 62 341, 34 7, 884, 35

¹ Applications filed.

HOUSING 333

ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDENTIAL BUILDINGS, AND TOTAL BUILDING OPERATIONS IN 94 CITIES OF THE UNITED STATES HAVING A POPULATION OF 100,000 OR OVER, FOR THE FIRST HALF OF 1931 COMPARED WITH THE FIRST HALF OF 1932—Continued

most les	Nev	residential	buildir	ng	10 113 10		m-t-1	nstruction.	
City	Estima	ted cost	provi	nilies ded for dwell- ngs	New non building mated o		including altera- tions and repairs (estimated cost)		
	First half of 1931	First half of 1932	First half of 1931	First half of 1932	First half of 1931	First half of 1932	First half of 1931	First half of 1932	
Pittsburgh	\$1, 834, 785	\$425, 050	378	99	\$4, 224, 352	\$2,939,799	\$7, 560, 490	\$4, 042, 250	
Portland, Oreg	1, 720, 600	521, 190	363	121	1,060,385	995, 365	3, 500, 410	2, 047, 854	
Providence	892, 500	345, 050	141	69	677, 860	303, 236	2, 434, 183	1, 226, 707	
Reading	181, 800	159, 000	19	30	1, 811, 732	67, 465	2, 254, 809	343, 571	
Reading Richmond, Va	810, 877	285, 700	131	82	344, 553	196, 137	1, 482, 214	716, 489	
Rochester	761, 900	299, 740	81	52	1, 944, 048	650, 016	3, 207, 022	1, 327, 591	
St. Louis	3, 143, 187	1, 321, 050	837	341	7, 586, 067	479, 796	11, 693, 679	2, 600, 054	
St Paul	1, 045, 800	563, 388	201	105	6, 687, 947	558, 834	8, 366, 848	1, 631, 565	
Salt Lake City	862, 990	91, 300	267	28	1, 575, 798	68, 111	2, 609, 252	266, 409	
San Antonio	574, 960	223, 990	375	151	645, 965	703, 489	1, 424, 164	1, 076, 143	
San Diego	1, 335, 652	465, 777	374	173	1,777,426	526, 598	3, 581, 971	1, 312, 288	
San Francisco		2, 539, 033	1, 446	697	6,003,024	1, 872, 562	12, 873, 619	5, 668, 911	
Scranton	81, 625	94, 675	27	25	288, 303	1, 536, 096	658, 401	1, 837, 277	
Seattle		430, 985	768	203	3, 125, 776	1, 588, 252	6, 684, 966	2, 563, 933	
Somerville	126, 500	9,700	32	3	401, 675	402, 222	647, 300	485, 170	
South Bend		46, 150	36	11	180, 140	197, 825	405, 851	311, 125	
Spokane		190, 060	127	64	605, 945	52, 565	1, 382, 004	357, 990	
Springfield, Mass	353, 970	144, 700	73	44	897, 272	439, 700	1, 518, 237	791, 376	
Syracuse	716, 100	255, 700	137	52	2, 878, 656	658, 922	4, 793, 074	1, 142, 496	
Tacoma	280,000	115,000	113	54	973, 680	75, 425	1, 444, 700	289, 330	
Гатра	113, 425	32, 950	39	28	146, 930	71, 788	408, 917	224, 782	
Foledo		110, 375	118	26	830, 832	43,006	1, 646, 733	249, 576	
Trenton	197, 400	61, 200	21	11	448, 852	146, 428	873, 110	274, 500	
Tulsa	1, 159, 525	97, 550	276	28	1, 291, 015	175, 889	2, 712, 311	351, 163	
Utica	182, 500	121, 700	37	25	156, 018	21, 295	527, 756	207, 210	
Washington	13, 891, 655	4, 232, 200	2, 205	769		38, 569, 244	24, 421, 984	44, 037, 364	
Waterbury		39, 200	42	14	80,000	11, 825	393, 775	107, 685	
Wichita	637, 380	120, 300	207	38	439, 199	792, 463	1, 213, 831	986, 234	
Wilmington	661, 350	185, 300	131	44	672, 281	339, 180	1, 844, 681	674, 539	
Worcester	740, 900	338, 400	121	76	111, 045	314, 735	1, 172, 842	805, 429	
Yonkers	3, 227, 740	903, 300	396	143	2, 172, 385	200, 491	5, 700, 680	1, 354, 386	
Youngstown	233, 850	31, 925	48	7	397, 009	402, 076	1, 032, 418	473, 863	
	229, 213, 383	54,995, 807 -76, 0	53, 787	14, 229 -73. 5	303,902,481	143,949,890 -52.6	622,464,820	245,467,403 60. 6	

Tax Exemption and Low-Cost Housing in New York City

In June, 1927, New York City adopted an ordinance remitting local taxes for a period of 20 years on model tenements erected by limited-dividend corporations, provided they met certain specifications. A State law passed a year earlier had exempted such buildings from State taxes, if they were finished before 1937, to the same extent that local taxes might be remitted. The latest report of the State housing board ¹ gives data as to the amount and kind of housing now available in New York City and the amount and kind provided under the legislation of 1926 and 1927. It also contains a discussion of the objections most commonly brought against encouraging the provision of housing by tax exemption and shows how far these are applicable to the limited-dividend housing projects of recent years.

New York State Board of Housing. Report. Albany, 1932. (Legislative document (1932), No. 84.)

Amount and Kind of Multifamily Housing in New York

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It is not commonly realized how large a proportion of New York's housing accommodation is still to be found in the old-law tenements. In 1900, at which date their construction was still legal, there were 82,652 in the city; in 1901 a new law was passed, enforcing a higher standard, but in 1930 the number of old-law tenements had fallen only to 67,658, or to 81.9 per cent of the 1900 figure. The common type of old-law tenement is thus described:

The building was on a lot 25 by 100 feet. It extended back 90 feet, leaving 10 feet in the rear for some light and air to back rooms. Each floor above the ground floor consisted of four apartments, two front apartments of four rooms each and two rear apartments of three rooms each. A so-called "air shaft," with a width of 28 inches and a length of 50 to 60 feet and inclosed on all sides, was designed to provide light and air to the five rooms on each side of the house. Only 4 of the 14 rooms on each floor received direct light and air from the street or yard. A 4-room apartment consisted of one room known as the parlor, which was generally about 11 feet 3 inches in length and 10 feet 6 inches in width. The kitchen was somewhat smaller and received its light and air from the "air shaft" or such a supply as came to it from the front room. Behind these two rooms were the bedrooms, the dimensions of which were 8 feet 6 inches by 7 feet. These rooms received no light and air whatsoever except that which came from the "air In the public hallway, opposite the stairs, were provided two water-Each water-closet was used in common by two families and was lighted closets. and ventilated by the "air shaft."

Of such apartments the old-law tenements in New York City contained 641,344 in 1909 and 528,951 in 1930. "In other words, 82.5 per cent of the suites which existed 22 years ago are here to-day."

The tenement-house law of 1901 brought about some improvement of conditions in buildings put up after that date. Every room must receive some light and air, hallways must be at least 3 feet wide, and the height of the house must not exceed one and a half times the width of the street. The size of the rooms and the coverage of the lot were regulated, provision must be made against dampness of cellar walls and floors, and a separate water-closet for each apartment was required. Between the coming into operation of the law (1901) and 1930 the net increase in the number of suites in new-law apartments was 898,136.

In Manhattan the construction of one and two family dwellings has ceased entirely, but in the other boroughs there has been a net increase since 1913 of 304,136 suites in this type of building. The distribution of residential suites shows the following changes between 1913 and 1930:

In 1913 one-half of all suites were in old-law tenements, one-quarter in new-law tenements, and one-quarter in one and two family houses. In 1930, 26.8 per cent of all suites were in old-law tenements, 42.7 per cent in new-law tenements, 14.7 per cent in 1-family dwellings, and 15.8 per cent in 2-family houses.

Rentals

THE amount of shelter provided is only one factor in the housing problem; the rent at which it can be obtained is of paramount importance to the worker. The following table shows the distribution, by monthly rent per room, of suites in the multifamily dwellings put up in New York City exclusive of the Borough of Richmond, and

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in Manhattan alone, during the four years 1927 to 1930. It is noted that rents were not obtainable for all apartments.

TABLE 1.—DISTRIBUTION, ACCORDING TO MONTHLY ROOM RENTS, OF APART-MENTS IN MULTIFAMILY DWELLINGS CONSTRUCTED, 1927 TO 1930

Monthly rent per room	New York (sive of Ri		Manh	attan
	Number	Per cent	Number	Per cent
Under \$12.50	3, 665	1.73	113	0.34
\$12.50 to \$13.49	5, 316 8, 440	2, 50 3, 97	369 48	1. 11
\$13.50 to \$14.49 \$14.50 to \$15.49	17, 985	8, 47	. 1	. 14
\$15.50 to \$16.49	19, 687	9. 27	179	. 54
\$16.50 to \$17.49.	17, 824	8. 39	283	. 85
\$17.50 to \$18.49	17, 960	8. 46	455	1. 37
\$18.50 to \$19.49.	16, 062 57, 964	7. 56 27. 29	957 4, 861	2. 87 14. 61
\$19.50 to \$24.49	18, 935	8, 91	3, 940	11. 84
\$29.50 and over	28, 571	13. 45	22, 072	66. 33
Total	212, 409	100.00	33, 278	100.00

In connection with this table it is pointed out in the report that during four years of construction only 1.7 per cent of the total number of apartments erected in all the boroughs except Richmond rented for less than \$12.50 per room a month, and that about one-third of these were found in the projects erected under the terms of the State housing law. Since it is deemed almost impossible for a worker to spend more than one-fourth of his earnings in rent, this means that the provision of approved housing within the reach of the ordinary wage earner has been strikingly small. From its survey of the whole situation, the report draws two conclusions:

1. We have a heritage of over 67,000 old-law buildings offering shelter for 528,000 families. These buildings have outlived economic justification and offer a challenge to the social conscience of the community that sustains them.

2. New housing supplied by the building industry, as it passes through alternating periods of booms and depressions, succeeds only at rentals that are out of reach of the majority of the population.

Amount and Kind of Housing Supplied by Limited-Dividend Corporations

THE State law of 1926 provided that in order to secure tax exemption, the limited-dividend corporations must erect their buildings under the supervision of the State housing board and in accordance with its specifications. So far, the work completed under this law consists of 11 different projects, comprising 1,918 apartments used for dwelling purposes, with a total of 7,356 rooms, including 44 dining alcoves and 11 bathrooms counted as half rooms. Under the terms of the State law, these projects are all conservatively financed, with a view to making them attractive for investment rather than for The average rent may not be more than \$12.50 speculative purposes. per room per month, and dividends may not exceed 6 per cent. after due provision for management, maintenance and amortization, returns would permit a larger dividend, rents must be reduced. State board of housing exercises a close supervision over plans and construction and enforces standards as to size of rooms, coverage of area, provision of light and air, cross ventilation, sanitation and

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the like, far superior to those usually found in low-rental building. Generally speaking, the board's approval is limited to sites which are large enough and so situated as to permit the development of projects with low coverage and in accordance with modern principles of site planning. Looking upon it as a duty to prove that superior types of dwellings are possible at relatively low cost, the board will not approve any project which is not suitably adapted to its surroundings and which is not so planned as to secure adequate light and air and necessary privacy for every apartment. In general, apartments may be only two rooms deep, thus securing complete through ventilation, and in the large projects, a number of valuable facilities are provided, such as clubrooms, playgrounds, and the like.²

Rentals

At the time the figures were compiled for this report the rent schedule of one project under the supervision of the housing board was not available. The other 10 completed projects comprised 1,789 apartments containing 6,852 rooms, excluding those occupied by superintendents or used for commercial purposes. The monthly rent of the apartments ranged from \$15, charged for each of four 1.5 room apartments, to between \$75 and \$80 for 10 five-room apartments, the average monthly rent per room varying from \$10.74 to \$12.50. The monthly rent per room and the number and per cent of rooms at each figure are shown, separately and cumulatively, in the following table:

TABLE 2.—DISTRIBUTION, BY MONTHLY RENTAL, OF ROOMS IN 10 COMPLETED PROJECTS UNDER THE STATE HOUSING LAW

and the support to appropriate the state of the state of	Numbe	r of rooms		Cumula-
Monthly rent per room	Total	Total, cumulated	Per cent of total rooms	tive per
\$8.00 to \$8.49	5	5	0. 07	0.0
\$8.50 to \$8.99	12	17	. 18	. 2
\$9.00 to \$9.49	344	361	5. 02	5, 2
\$9.50 to \$9.99	480	841	7.00	12.5
\$10.00 to \$10.49	940. 5	1, 781. 5	13.72	25.1
\$10.50 to \$10.99	1, 519. 5	3, 301	22. 17	48.1
\$11.00 to \$11.49	1, 388. 5	4, 689, 5	20. 26	68.4
\$11.50 to \$11.99	510. 5	5, 200	7.45	75. 8
\$12.00 to \$12.49.	876	6, 076	12. 79	88.
\$12.50 to \$12.99	328	6, 404	4.79	93,
\$13.00 to \$13.49.	131	6, 535	1. 91	95, 3
\$13.50 to \$13.99.	101.5	6, 636. 5	1.48	96.1
\$14.00 to \$14.49	68.5	6, 705	1.00	97.1
314.50 to \$14.99	8	6, 713	. 12	97.1
15.00 to \$15.49.	124. 5	6, 837. 5	1.82	99.
317.50	7	6, 844. 5	. 10	99.1
011.00	8	6, 852. 5	. 12	100.
Total.	6, 852. 5		100.00	

A rental of \$12.50 per room per month is looked upon as the outside limit of what the average worker can pay for housing. It will be noted that of the 6,852.5 rooms listed in this table very nearly 90 per cent are within this limit, nearly half are under \$11, and one-eighth (12.27 per cent) are under \$10. The board looks upon this as a

¹ Descriptions of some of these buildings may be found in the Labor Review, August, 1928, p. 1, and September, 1929, p. 106.

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demonstration that, by means of large-scale economies and careful planning, excellent housing can be provided, even in a large city, at rentals within the reach of the great mass of workers.

Some Effects of Tax Exemption

IN DISCUSSING this topic it is emphatically stated that tax exemption without careful regulation is not desirable.

Without the proper safeguards tax exemption will neither lower rents nor improve standards. Unfortunately, a striking illustration of this situation was witnessed in New York City during the last decade, when the city of New York took advantage of the amendment to the State law which granted municipalities the right to exempt from taxes residential buildings whose construction was begun before April 1, 1924. The result, as we have pointed out in previous reports, was the production of one and two family dwellings of decidedly inferior quality, mostly in Brooklyn and Queens, at rents that were considerably above the price that could be paid by families with modest incomes.

But, given proper regulation, tax exemption indubitably aids in the production of desirable housing at lower rents than could be afforded otherwise. Without it, rents in the housing provided by the limited-dividend corporations would have to be increased as follows:

Amalgamated Housing Corporation:	Amount of rental increase per room per month
Units 1 to 6	\$2, 09
Units 7 to 8	3. 00
Amalgamated Dwellings (Inc.)	2. 49
Academy Housing Corporation	1. 59
Brooklyn Garden Apartments (Inc.):	
Fourth Avenue	1. 94
Navy Yard	1. 27
Farband Housing Corporation	1. 94
Manhattan Housing Corporation	2. 64
Stanton Homes Corporation	3. 18
Average for 9 projects	2. 24

It is interesting to note that the principal factor producing the variations shown in the room rental increases is the difference in the average room sizes. Buildings with smaller rooms experience the lowest savings and those with the larger rooms the greatest savings. In other words, limited-dividend companies that provide the highest accommodations to tenants—as measured by room sizes—receive the greatest benefits from tax exemption.

Cost of Tax Exemption to the Municipality

In considering the effect of tax exemption upon the city's revenues, it must be remembered that the exemption is not upon the total cost of the site and building combined, but upon either the cost or appraisal value, whichever is the lower, of the improvements. The actual amount granted in tax exemptions by New York City to the State Board of Housing projects was \$50,763 in 1929, \$89,992 in 1930, and \$119,859 in 1931, a total of \$260,613 for the three years. Considering only the financial aspect, attention is called to the fact that this is, at least in part, offset by the fact that operation of limited-dividend corporations tends to improve the neighborhood in slum areas and to accelerate the building up of new localities in outlying regions with increasing revenues to the city. From any other standpoint the board feels that the sum lost through tax exemption is a small amount to pay for the advantage of securing improved housing

at rentals the worker can meet, and for the demonstration these projects afford of the fact that the provision of housing in New York has been allowed to develop along unnecessarily expensive and undesirable lines.

Every structure erected in terms of the board's standards is a challenge to the community to rid itself of a system that provides homes by letting the small owner hold the bag while the land developer parcels out the city's undeveloped land into 20 or 25 foot lots, the second mortgagee charges the hard-pressed owners an interest of 9 to 15 per cent, the builder erects ugly rows of single and 2-family houses, and apartment houses crowd the land to the maximum permitted by law.

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WAGES AND HOURS OF LABOR

Wages and Hours of Labor in Air Transportation, 1931

HIS article presents the results of a study in 1931 by the Bureau of Labor Statistics of hours and earnings of commercial airtransportation employees in the United States. The study was limited to pilots and copilots operating heavier-than-air machines on scheduled mail and passenger routes, and to the ground personnel used in the operation and repair of such machines; it covered approximately 95 per cent of such workers, 3,509 males and 88 females employed by 26 transportation companies serving 138 cities in 40 States and the District of Columbia. Employees engaged in the operation of sight-seeing, crop dusting, mapping and surveying, and flying-instruction machines were not included.

The study showed that while the average full-time flight hours of pilots are fixed by the Department of Commerce at a maximum of 110 per month, the hours actually flown in October, 1931, when the

study was made, averaged only 80.4.

The actual earnings of pilots during the month averaged \$569.49 and those of copilots \$227.89. Those of all other employees com-

bined averaged \$31.66 per week.

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Average hours and earnings are shown by districts in Table 1 for pilots, in Table 2 for copilots, and in Table 3 for each of the other important occupations in commercial transportation and also for a group, designated as "Other employees," including occupations having too few employees to warrant separate occupational tabula-The wage figures are shown by districts, instead of by States or cities, in order to avoid showing averages for one company and thus possibly revealing its identity. The States included in each of the geographic districts shown are as follows:

North Atlantic.—Massachusetts, New Jersey, New York, and Pennsylvania.

South Atlantic.—Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and the District of Columbia.

East North Central.—Illinois, Indiana, Michigan, Ohio, and Wisconsin.

South Central.—Alabama, Arkansas, Kentucky, Louisiana, Mississippi,

Oklahoma, Tennessee, and Texas.

West North Central.-Iowa, Kansas, Minnesota, Missouri, Nebraska, and North Dakota.

Western.—Arizona, California, Colorado, Idaho, Montana, New Mexico,

Nevada, Oregon, Utah, Washington, and Wyoming.

It is the policy of the bureau, whenever possible, to bring wage figures to a common basis of one week when the pay periods of the different companies are for varying lengths of time. Weather conditions are a great factor in flight activities. It was found that all planes of a company on one route might be kept from flight for an entire week while those on another route of that company during the same week would be operated every day of the week as scheduled.

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Consequently wage figures for the flight personnel (pilots and copilots) were collected by the bureau for the entire month of October, 1931, for each company covered in the study. Wage figures for the ground personnel of each company were collected for a whole pay period in October and then converted to a weekly basis in order that the hours and earnings of such employees might be as nearly as possible comparable with those of other industries for which figures are published by the bureau.

Each transport company maintains at large terminal and intermediate airports a force of employees ranging from a few operation mechanics and radio operators and repairers to a large organization including all the occupations for which wage figures are shown in this report. As many as six or seven companies may each maintain a force of employees at large terminal airports; in such cases each force was counted a "local unit."

Hours and Earnings of Pilots, 1931, by Districts

Pilots must possess a high degree of skill and resourcefulness and considerable intelligence and experience. Each one must have a United States Department of Commerce transport license, rating him according to his experience on various weights and types of aircraft. From the time he steps into the plane until he leaves it, the pilot has complete command. He operates the controls of the plane at all times during its flight, unless he has a copilot to relieve him; a great majority of the pilots, however, are not accompanied by copilots.

Full-time flight hours of pilots are regulated by the United States Department of Commerce. A pilot employed in interstate passenger air-transport service shall not be on flight duty more than 110 hours in any one month, nor 30 hours in any 7-day period, nor 8 hours in any 24-hour period. He must also be granted a rest period of at least 24 consecutive hours within each 7-day period. Certain latitude, however, is allowed when necessary for reasonable schedules.

Although the maximum flight-hours are 110 per month, the hours actually flown during the month studied averaged only 80.4. The average in the various districts ranged from 76.2 in the Western district to 86.7 in the South Central district. The proportion of full-time that was actually flown ranged from 69.3 per cent in the Western to 78.8 per cent in the South Central district. The per cent for all districts combined was 73.1, thus showing 26.9 per cent of lost time during the month.

Average actual earnings in one month ranged from \$482.45 for the South Central to \$617.84 for the South Atlantic district, and for all districts combined were \$569.49.

Average earnings per flight-hour ranged from \$5.565 for the South Central to \$8.066 for the Western district; for all districts combined they were \$7.084.

At full time (110 hours per month), with the hourly earnings shown above—\$7.084—these employees would have earned \$779.19. In the various districts average full-time earnings would have ranged from \$612.17 for the South Central to \$887.28 for the Western district.

In a small number of companies the pilots are paid a monthly salary regardless of the number of hours flown during the month. In the majority of companies, however, the pilots receive a monthly salary

plus a specified rate for each mile flown. The mileage rate for night flying is generally higher than for day flying (in some companies twice as high). The rates also vary according to the terrain of the route. Actual figures showing monthly salaries and mileage rates separately could not be published, however, without the possibility of revealing the identity of some of the companies.

TABLE 1.—AVERAGE HOURS AND EARNINGS OF PILOTS AND PER CENT OF FULL TIME FLOWN IN ONE MONTH, 1931, BY DISTRICT

per bour ranged or	Num-	Num-	Aver- age full- time	flown	actually in one nth	Average	Average full-time	Average actual
District	ber of local units	ber of pilots	flight- hours per month ¹	Average number 2	Per cent of full time	earnings per flight- hour ³	earnings per month	earnings in one month 4
North Atlantic East North Central	12 24	46 123	110. 0 110. 0	84. 1 79. 4	76. 5 72. 2	\$7, 284 6, 929	\$801. 19 762. 22	\$612. 87 550. 22
West North Central	12	. 81	110.0	78. 4	71. 3	6, 906	759. 65	541. 47
South Atlantic	10	45	110.0	85, 8	78.0	7. 199	791. 89	617. 84
South Central	16	53	110.0	86. 7	78.8	5, 565	612. 17	482. 48
Western	24	112	110.0	76. 2	69. 3	8.066	887. 28	614. 86
Total	98	460	110.0	80. 4	73. 1	7.084	779. 19	569. 49

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Regulated by the United States Department of Commerce, Computed by dividing total hours actually flown during month by the employees covered. Computed by dividing actual earnings in one month by hours actually flown in month.

Computed by dividing total actually earned in month by number of pilots covered.

Days, Hours, and Earnings of Copilots, 1931, by Districts

Copilots usually hold a United States Department of Commerce transport license and are qualified to operate the controls of the plane when called on to relieve the pilot. On planes equipped with radio they must also have a radio operator's license permitting them to maintain communication by radio with ground stations. On long flights they often act as stewards, serving meals en route and providing for the comfort of the passengers.1

Table 2 shows, for the copilots covered in each geographic district and in all districts combined, average days and hours per month and average earnings per month and per hour. Average earnings are shown for their work as copilots, as acting pilots, and in both capaci-Figures for copilots are not shown for the South Atlantic district, due to the fact that flying in this district was from base ports in

adjacent districts where data for them are shown.

Except for the regular relief day every seven days, the copilots report for duty every day or every other day, depending upon the schedule arranged. In the month studied (October, 1931) 65 of the copilots were supposed to be on duty for 15 days and 73 for 27 days.

Average full-time days in one month ranged by districts from 19.8 for the North Atlantic to 22.8 for the Western district; the average for all districts combined was 21.2. Due to the schedule, copilots have full-time hours of either 120 or 216 per month. Of the 138 copilots included in this study, the full-time hours of 47 per cent were 120 per month and those of 53 per cent were 216 per month.

One company includes a hostess among its flight personnel and one company has a stewardess on certain For obvious reasons, data for these two occupations are not shown.

range, by districts, was from 158.4 for the North Atlantic to 182.7 for the Western district, and the average for all districts was 170 hours.

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Since it was impossible to get actual flight-hours for copilots except when they were on duty as pilots, data on this point and on actual

earnings per flight-hour can not be shown for them.

With few exceptions, copilots are paid a straight monthly salary Their only additional regardless of the mileage flown in the month. earnings are for work as acting pilot. For work as copilot only, the average full-time earnings in one month ranged from \$198.16 for the West North Central to \$238.21 for the Western district, and for all districts were \$218.26. The average earnings per hour ranged from \$1.162 for the West North Central to \$1.422 for the North Atlantic district, and for all districts were \$1.284.

Table 2 shows that in the month covered by the study 12 copilots (4 in the North Atlantic, 3 in the East North Central, and 5 in the Western district) acted as pilots. Their earnings in this capacity, averaging \$110.69 each for the month, were sufficient to raise earnings per month for the whole group of copilots from an average of \$218.26

to \$227.89, and earnings per hour from \$1.284 to \$1.341.

TABLE 2.—AVERAGE DAYS AND HOURS WORKED BY COPILOTS, AND EARNINGS FOR REGULAR AND ADDITIONAL WORK, 1931, BY DISTRICT

District	Num-	Num-	Average full time in 1 month		Earnings for copilot work only		Earnings for additional work as acting pilot		Total earnings	
District	ber of local	ber of	Days	Hours 1	Average in 1 month	Per hour ²	Number of employ-ees having	Average in 1 month	Average in 1 month \$256.01 210.29 198.16 215.77	Average per hour
North Atlantic East North Central West North Central South Central Western	6 10 4 5 9	20 48 19 13 38	19. 8 20. 3 21. 3 22. 4 22. 8	158. 4 162. 0 170. 5 179. 1 182. 7	\$225, 21 208, 21 198, 16 215, 77 238, 21	\$1.422 1.285 1.162 1.205 1.304	4 3 5	\$154.00 33.27	210, 29 198, 16 215, 77	\$1, 616 1, 296 1, 16; 1, 20; 1, 39;
Total	34	138	21. 2	170. 0	218. 26	1. 284	12	110.69	227. 89	1. 34

Computed by dividing total full-time hours by number of copilots.
 Based on average full-time hours and earnings in 1 month.

Days, Hours, and Earnings of Other Employees

TABLE 3 shows average days, hours, and earnings for each district and for all districts combined for males in each of the occupations and in all occupations combined in commercial air transportation, except pilots and copilots. Females were employed as traffic agents, clerks, stenographers, seamstresses, fabric workers, and the groups of other employees, skilled and unskilled; because of the small number in any one of the occupations in the industry, no separate occupational classification is given for them, but an average is shown for all occupations combined.

Approximately 10 per cent of the employees in this table were paid hourly rates for the hours actually worked during the pay period covered by the study and 90 per cent were paid weekly, monthly, or yearly salaries based on full time, regardless of the number of hours actually worked during the period. The salary of each employee

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ne ne ll whose rate was for a month or year was reduced to a weekly rate. The full-time hours per week of each salaried employee and his weekly rate were used in computing average earnings per hour. Therefore, the fifth column of Table 3 is headed "hours credited in one week" instead of "average hours actually worked in one week" as in wage reports for other industries.

TABLE 3.—AVERAGE DAYS, HOURS, AND EARNINGS, 1931, IN SPECIFIED OCCUPATIONS, BY DISTRICT

		N7	Aver- age days	Aver-		s cred- 1 week	Aver-	Aver-	Aver-
Occupation, sex, and district	Number of local units	Num- ber of em- ploy- ees	on which em- ployees worked in 1 week	age full- time hours per week	Average number	Per cent of full time	age earn- ings per hour	full- time earn- ings per week	age actual earn- ings in 1 week
Agents, traffic, male:	10	01		40.0	40.0	100.0	***	****	407.6
North Atlantic East North Central	13 22	21 43	6.0	48. 0 48. 0	48. 0 48. 0	100.0	\$0.576	\$27.65 31.17	\$27. 63
West North Central	13	16	6.1	47. 3	47.3	100.0	.701	33. 12	33, 12
South Atlantic	1 17	23	6.0	48. 1	48. 1	100.0	. 555	26. 69	26, 69
South Central	22	41	6.0	48. 2	48. 2	100.0	. 603	29.04	29.04
Western	16	31	5. 9	48. 2	47. 2	97. 9	. 689	33. 20	32. 49
Total	103	175	6, 0	48.0	47. 8	99. 6	. 629	30, 17	30.0
Chauffeurs, male: North Atlantic	- 3-								
North Atlantie	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
East North Central	7	20	6.1	48. 2	49. 4	102.5	. 528	25. 45	26. 0
West North Central		6 5	5.8	48.0	46.7	97.3	.500	23. 98	23. 31
South Central			6.5	52.0	52.0	100.0	.333	17. 31	17. 31
Western	3	2 5	6.0	48.0	48.0	100.0	.620	29. 77	29. 7
Total	17	41	6,0	48.3	48.7	100.8	. 558	26, 93	27. 14
llerks, stenographers, male:									
North Atlantic	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
East North Central	11	23	6.0	48.0	48.0	100.0	. 478	22.96	22. 9
West North Central	8	16	6.0	48.0	48.0	100.0	. 534	25.65	25. 6
South Atlantic	6	24	6.0	48.0	48.0	100.0	. 620	29. 74	29. 74
South Central Western	8 9	25 18	6.0	48.7	48. 7 48. 0	100.0	. 487	23. 73 31. 74	23. 73 31. 74
Total	43	107	6.0	48. 2	48, 2	100.0	. 551	26, 54	26, 5
rew chiefs, male:									
North Atlantic.	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
East North Central	9	25	6.1	49. 2	51.7	105. 1	(1) .838	(1) 41. 22	43, 31
West North Central	1	(1)	(1)	(1) (1)	(1)	(1)	(1)	(1)	(1)
South Atlantic	1	(1)	(1)		(1)		(1)		(1)
South Central	2	2	6.0	48.0	48.0	100.0	.837	40. 19	40, 19
Total	14	44	6.0	48, 7	50. 1	103.0	. 902	43. 91	45. 17
Dispatchers, male:									
North Atlantic	7	23	5. 6	48.8	48.8	100.0	. 559	27. 26	27. 20
East North Central		27	6.0	48.0	48.0	100.0	. 608	29. 17	29, 17
West North Central South Atlantic	4	9 26	6. 0 5. 8	48.0	48. 0 48. 3	100, 0	. 663	31. 82 26, 54	31. 82
South Central	11	17	6.0	48, 3 45, 9	45. 9	100.0	. 549	23.86	26, 54 23, 86
Western	9	16	6.0	48.0	48.0	100.0	.718	34. 46	34. 46
Total	52	118	5. 9	47. 9	47. 9	100. 0	. 592	28. 37	28. 37
spectors, male:	-								7
North Atlantic	3	5	6,0	48.0	48.0	100.0	1.038	49.84	49. 84
East North Central	3	9	6.2	47.6	50. 6	106.3	. 863	41.07	43. 63
West North Central	3	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
South Atlantic	2 2	2	6.0	48.0	48.0	100.0	1.022	49.04	49.0
South Central	2	3	6.0	49.7	49.7	100.0	. 953	47. 31	47. 31
Western	2	3	6.0	48.0	49. 7	103, 5	1. 031	49. 50	51. 22
Total	13	25	6.1	48.0	49. 6	103, 0	. 945	45, 37	46, 87

¹ Data included in the total but not given separately, to avoid identification.

TABLE 3.—AVERAGE DAYS, HOURS, AND EARNINGS, 1931, IN SPECIFIED OCCUPA.
TIONS, BY DISTRICT-Continued

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	Num-		Aver- age days on	Aver- age		s cred- 1 week	Aver-	Average full-	Aver.
Occupation, sex, and district	ber of local units	ber of em- ploy- ees	which employ- ees worked in 1 week	full- time hours per week	Average number	Per cent of full time	earn- ings per hour	time earn- ings per week	actual earn- ings in 1 week
Janitors, male:									
North Atlantie East North Central West North Central South Atlantie South Central Western	4 9 4 3 5 5	7 28 6 7 9 16	6. 0 6. 3 6. 2 6. 0 6. 2 6. 1	51. 4 54. 7 60. 0 51. 4 51. 1 49. 7	51. 4 55. 5 58. 7 51. 4 51. 1 49. 7	100. 0 101. 5 97. 8 100. 0 100. 0 100. 0	\$0. 396 .328 .402 .272 .282 .485	\$20. 36 17. 93 24. 11 14. 01 14. 39 24. 11	\$20, 36 18, 19 23, 58 14, 01 14, 39
Total	30	73	6. 2	53.0	53. 2	100. 4	. 362	19. 21	24.11
Machinists and toolmakers, male: East North Central. West North Central. South Central Western.	5 1 1 2	10 (1) (1) 5	6, 2 (1) (1) (1) 6, 0	46. 4 (1) (1) 48. 0	58. 3 (1) (1) (1) 48. 1	125. 6 (1) (1) (1) 100. 2	. 756 (1) (1) (1) . 721	35. 09 (1) (1) (1) 34. 61	44. 12 (1) (1) (1) 34. 68
Total	9	19	6, 1	47.2	53. 5	113.3	. 754	35, 58	40.30
Mechanics, airplane, licensed, male: East North Central	5 3 3 4 8	25 32 16 7 82	6, 1 5, 3 6, 2 6, 0 6, 1	46. 3 48. 0 48. 0 48. 9 48. 0	52. 0 46. 8 53. 9 50. 5 53. 1	112. 3 97. 5 112. 3 103. 3 110. 6	. 766 . 676 . 749 . 650 . 748	35. 45 32. 44 35. 93 31. 79 35. 91	39, 81 31, 61 40, 31 32, 84 39, 71
Total	23	162	6.0	47. 8	51.7	108. 2	. 734	35, 08	37.9
Mechanics, engine, licensed, males: North Atlantic East North Central West North Central South Atlantic South Central Western Total	4 10 3 3 3 8	9 46 27 20 16 32	6. 0 6. 1 5. 7 6. 0 5. 8 5. 9	48. 0 47. 3 48. 0 48. 0 50. 1 48. 0	48. 0 52. 0 47. 4 48. 9 48. 6 49. 5	100. 0 109. 9 98. 8 101. 9 97. 0 103. 1	. 791 . 704 . 717 . 852 . 722 . 747	37, 98 33, 32 34, 43 40, 87 36, 18 35, 85	37. 99 36. 66 34. 00 41. 66 35. 10 37. 00
			0. 0	10.0	10.0	10010			00,0
Mechanics, airplane and engine, li- censed, males: North Atlantic East North Central West North Central South Atlantic South Central Western	12 27 18 10 19 29	72 132 67 59 99 159	6. 0 6. 1 6. 0 6. 0 6. 0 6. 0	48. 0 48. 6 48. 1 48. 0 49. 5 48. 0	49. 1 51. 7 48. 4 48. 1 49. 7 48. 8	102. 3 106. 4 100. 6 100. 2 100. 4 101. 7	. 783 . 711 . 700 . 806 . 721 . 778	37. 60 34. 54 33. 66 38. 70 35. 67 37. 33	38. 4 36. 7 33. 8 38. 7 35. 8 37. 9
Total	115	588	- 6.0	48.4	49. 5	102. 3	. 747	36, 16	37.0
Mechanics, airplane or engine, not licensed, males: North Atlantic East North Central. West North Central South Atlantic South Central Western	5 7 3 5 2 6	9 51 31 39 24 16	6. 2 6. 0 5. 0 6. 0 5. 9 6. 0	48. 0 47. 1 48. 0 48. 0 49. 1 48. 0	49, 4 53, 3 44, 8 48, 8 49, 2 49, 0	102. 9 113. 2 93. 3 101. 7 100. 2 102. 1	.653 .641 .573 .647 .721 .615	31. 33 30. 19 27. 50 31. 05 35. 41 29. 51	32. 2 34. 1 25. 6 31. 5 35. 5 30. 1
Total	28	170	5.8	47. 9	50.0	104. 4	. 641	30. 68	31. 7
Mechanics, chiefs, males: North Atlantic East North Central West North Central South Atlantic South Central Western	7 14 8 6 10 25	7 25 17 10 17 43	6. 0 6. 0 6. 1 6. 0 6. 0 6. 0	48. 0 47. 3 48. 0 48. 0 48. 7 48. 2	49. 6 48. 1 49. 5 48. 0 48. 7 48. 3	103. 3 101. 7 103. 1 100. 0 100. 0 100. 2	1. 077 1. 037 1. 088 1. 197 1. 016 1. 069	51. 67 49. 06 52. 23 57. 46 49. 52 51. 53	53. 3 49. 9 53. 8 57. 4 49. 5 51. 5
Total	70	119	6.0	48. 0	48. 5	101. 0	1. 069	51.30	51.8
Mechanics' helpers, licensed, males: North Atlantic East North Central West North Central South Atlantic South Central Western	2 15 6 3 2 5	3 34 8 6 4 5	6. 3 6. 1 6. 3 6. 0 6. 0 6. 0	48. 0 47. 3 47. 3 48. 0 50. 5 48. 0	50. 7 50. 1 49. 1 48. 0 50. 2 48. 0	105. 6 105. 9 103. 8 100. 0 99. 4 100. 0	. 603 . 534 . 593 . 529 . 570 . 555	28. 96 25. 28 28. 06 25. 39 28. 76 26. 63	30. 5 26. 7 29. 1 25. 3 28. 5 26. 6
Total	33	60	6.1	47.7	49.6	104. 0	. 549	26. 20	27. 2

¹ Data included in the total but not given separately, to avoid identification.

TABLE 3.—AVERAGE DAYS, HOURS, AND EARNINGS, 1931, IN SPECIFIED OCCUPATIONS, BY DISTRICT—Continued

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A September 1	Num-		Aver- age days on	Aver-		s cred- 1 week	Aver-	Average full-	Aver-
Occupation, sex, and district	ber of local units	ber of em- ploy- ees	which employ- ees worked in 1 week	full- time hours per week	Average number	Per cent of full time	earn- ings per hour	time earn- ings per week	earn- ings in 1 week
Mechanics' helpers, not licensed, males:									
North Atlantic	7	28	6.1	48.0	49.6	103. 3	\$0.483	\$23. 19	\$23. 9
East North Central West North Central	17 11	72 51	6.0	49.7 47.9	51. 8 48. 1	104. 2	. 384	19. 07 20. 12	19.8
South Atlantic	10	57	6.1	48.0	51.1	106. 5	. 441	21. 19	22. 5
South Central	10	42	6.0	49. 2	50.0	101.6	. 466	22.92	23. 2
Western	22	82	6.0	48. 0	49. 2	102. 5	. 479	23. 01	23. 5
Total	77	332	6. 0	48.5	50. 0	103. 1	. 441	21. 39	22. 0
Porters, males: North Atlantic	3	5	00	40.0	40 0	100.0	201	17 91	17.0
East North Central	6	9	6.0	48. 0 48. 0	48. 0 48. 0	100.0	. 361	17. 31 8. 35	17. 3 8. 3
West North Central	1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
South Atlantic	11	16	6.0	48.0	48.0	100.0	. 207	9.93	9.9
South Central Western		11	6.1	48.7	48.7	100.0	. 250	12.17	12.1
Total		44	6.0	48. 2	48. 2	100. 0	. 240	11. 54	11.5
		- 11	0.0	40. 4	10. 2	100.0	. 240	11.01	11. 0
Radio mechanics, males: North Atlantic	5	8	6.0	48. 0	48. 0	100. 0	. 749	35. 96	35, 9
East North Central	4	20	6.0	48.0	48.0	100.0	. 725	34.81	34.8
West North Central	3	15 15	5. 9 6. 0	48.0	47. 7 48. 0	99. 4	.716	34. 37	34. 1
South Central		11	6.0	48. 0 48. 0	48. 0	100.0	. 637	36. 07	30. 5 36. 0
Western		25	6.0	48.0	48.0	100.0	. 624	29. 94	29. 9
Total	24	94	6.0	48. 0	47. 9	99.8	. 688	33. 01	32.9
Total									
North Atlantic	10	20	6.0	48.0	48.0	100.0	. 705	33. 85	33. 8
East North Central	10	24	6.0	48.0	48. 0	100.0	. 646	31.00	31.0
South Atlantic		27 21	6.0	48. 0 48. 0	48. 0 48. 0	100.0	. 681	32.71	32. 7 34. 5
South Central	14	30	6.2	49. 9	49. 9	100.0	.711	35. 43	35. 4
Western	23	62	6.0	48. 4	48.4	100.0	. 751	36. 36	36.3
Total	81	184	6.1	48. 4	48.4	100. 0	.712	34. 49	34. 4
Stock clerks, males:									1111
North Atlantic East North Central	6	19	6.0	48. 0	48. 0 50. 2	100. 0	. 535	25. 68 26. 11	25. 6
West North Central		13	5, 9	48, 0	47.3	98. 5	. 559	23. 80	28. 6
South Atlantic		13	6.0	48.0	48. 0	100.0	. 514	24, 68	24. 6
South Central	3 7	10 23	6.0	49. 8 48. 0	49. 8 48. 0	100.0	. 601	29. 89	29. 8
Total	24	82	6.0		1	100.0	. 599	28. 75	28. 7
The state of the s	24		6.0	47. 9	48.6	101. 5	. 557	26. 70	27. 10
Other employees, skilled, males: North Atlantic	9	19		40 0	40.0	109 #	901	20 00	40.0
East North Central		13 40	6.0	48. 2 47. 8	49. 9 50. 3	103. 5 105. 2	.801	38. 62 39. 05	40. 0
West North Central	9	22	5.4	47.7	41.9	87.8	.851	40. 58	35. 6
South Atlantic	9	28	6.0	48.1	48.1	100.0	. 864	41. 52	41. 5
South Central Western	8 7	16 24	6.1	49.0	49. 2	100.4	. 645	31.61	31. 7
			6.0	48.0	47. 9	99. 8	. 859	41. 23	41.1
Total	53	143	5. 9	48. 0	48. 0	100.0	. 817	39. 19	39. 19
other employees, unskilled, males:				10.0	FO 0	100 0	900	10.10	
Fast North Central	6 9	7 23	6.1	52. 9 55. 3	52. 9 57. 9	100. 0	. 363	19. 19 21. 00	19. 1
West North Central	3	15	5.8	52.4	49. 4	94. 3	. 434	22.73	21. 9 21. 4
South Atlantic	3	56	6.0	48.0	48.8	101.7	. 381	18.30	18. 6
South Central Western	10	65 15	6.1	51. 2	51.4	100.4	. 364	18. 65	18. 7
		10	0. 3	55. 7	59. 2	106. 3	. 445	24. 76	26. 3
Total.	36	181	6.1	51.3	52.0	101. 4	. 384	19.72	19. 9

¹ Data included in the total but not given separately, to avoid identification.

TABLE 3.—AVERAGE DAYS, HOURS, AND EARNINGS, 1931, IN SPECIFIED OCCUPA.

TIONS, BY DISTRICT—Continued

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	Num-	Num- ber of	Average days on which	Aver- age full-	Hours ited in	s cred- 1 week	age	full-	Aver-
Occupation, sex and district	ber of local units				Average number	Per cent of full time	earn- ings per	\$32, 76 30, 49 30, 96 29, 50 31, 26 21, 35 23, 65 24, 82 22, 76 23, 39 23, 85 30, 86 24, 82 22, 76 23, 39 30, 36 30, 84 28, 82 29, 31	actual earn- ings in 1 week
All employees, males:									
North Atlantic	22	250	6.0	48.3	49.0		\$0.678	\$32.76	\$33. 2
East North Central	39	705	6.1	48.5	51.1	105. 4	. 629		32.1
West North Central	28	385	5.8	48.3	47.6	98.6	. 640	30.96	30.
South Atlantic	30	454	6.0	48.1	48. 9	101.7	. 603	29.00	29.4
South Central.	49	454	6.0	49. 4	49.5	100. 2	. 597	29. 51	29.
Western	46	663	6.0	48.3	49. 4	102.3	.712		35. 1
Total	214	2, 911	6.0	48. 5	49.5	102.1	. 645	31. 26	31.8
All employees, females: North Atlantic			-			-			
North Atlantic	2	4	6.0	48.0	48.0	100.0	. 445	21.35	21.3
East North Central	8	15	6.0	48.0	48.0	100.0	. 493		23. 6
West North Central	6	9	6.0	48.0	48.0	100.0	. 535		25. 6
South Atlantic	7	22	6.0	48.0	48.0	100.0	. 517	24. 82	24. 8
South Central	5	11	6.0	48.0	48.0	100.0	. 474	22.76	22.7
Western	8	27	6. 0	48. 0	48.0	100.0	. 487		23. 3
Total	36	88	6.0	48. 0	48.0	100.0	. 497	23.85	23. 8
All employees, males and females:									-
North Atlantic	22	254	6.0	48.3	49.0	101.4	. 675	32.50	33. (
East North Central	39	720	6.1	48. 5	51.1	105. 4	. 626		31.9
West North Central	28	394	5.8	48.3	47.6	98.6	. 639		30.3
South Atlantic	30	476	6.0	48. 1	48.9	101.7	. 599		29. 2
South Central	49	465	6.0	49.3	49.5	100. 4	. 595		29.
Western	46	690	6.0	48.3	49.3	102.1	. 703	33.96	34.6
Total	214	2, 999	6.0	48. 5	49.4	101.9	. 640	31.05	

Basic Salaries of Pilots and Copilots, October, 1931

The basic monthly salaries of pilots (except 16 who were paid mileage rates only and 29 whose rates were not reported) and of copilots are shown in Table 4. Approximately 25 per cent of the pilots received only the basic salary, while 75 per cent also received mileage rates. The figures in the table do not include earnings for mileage flown.

TABLE 4.—NUMBER OF PILOTS AND COPILOTS, OCTOBER, 1931, BY BASIC SALARY PER MONTH

[Approximately 25 per cent of the pilots are paid salary only; others are paid salary and rates per mile flown]

	Numb	per of-		Num	ber of—		Numb	er of-
Salary per month	Pilots	Co- pilots	Salary per month	Pilots	Co- pilots	Salary per month	Pilots 1 99 14 12 11 1 2 11 2 19 3 4 4 2 7 16	Co- pilots
Under \$100	6		\$192 1	5		\$270		
\$100	2	1	\$200	30	21	\$275	1	
\$120	6		\$208 1	14		\$300	99	
\$125		7	\$210	1	3	\$350	14	
\$130	5		\$213	2		\$375	12	
\$140	3	1	\$217 1	16	11	\$400	11	
\$145		1	\$220	2		\$430	1	
150	37	6	\$225	13	46	\$450	2	
160	8	1	\$230	1	1	\$500	10	
163	0		\$233 1	1		\$525		
	10			0			0	
167 1	10		\$238	1		\$600	4	
170	4		\$240	2		\$775	2	1
175	16	11	\$242 1	1		Mileage rate only.		~~
180	4		\$248		7	Not reported	29	
183 1	16		\$250	27	. 5			-
188	9	15	\$260	1		Total	460	13

¹ Based on yearly salary.

Actual Earnings of Pilots and Copilots, October, 1931, by District

Table 5 shows for each geographic district and for all districts combined the number of pilots and of copilots in each classified group of earnings in October, 1931. The earnings for each person include his basic salary per month or proportionate part thereof for any portion of the month that he was on the pay rolls in the month and his mileage earnings for miles flown, if any.

Five of the 460 pilots covered in the study earned less than \$150 in October, due probably to the fact that they were not on the rolls the entire month and that their hours of flight were few or none in the month. The earnings of 4 pilots were between \$950 and \$1,000 in the month; in each case the amount included basic salary and

earnings for mileage.

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Table 5.—CLASSIFIED EARNINGS PER MONTH OF PILOTS AND COPILOTS, OCTOBER 1931, BY DISTRICT

			P	ilots						Copilo	ts		
Classified actual earnings in 1 month	North At- lantic	East North Cen- tral	West North Cen- tral	South At- lantic	South Cen- tral	West- ern	To- tal	North At- lantic	East North Cen- tral	West North Cen- tral	South Cen- tral	West- ern	To-
Under \$150	1		1	-	1	2	5		1	1		1	-
3150 and under \$160					A	-	4	1		2			1 2
170 and under \$180			2				2		9	-	2		1
190 and under \$200			-				-	1	7	3	2	2	-1
200 and under \$210								2	9	7	1	3	2
210 and under \$220						2	2	3	2		1	3	-
220 and under \$230			1		1	-	2	1	11	6	5	22	4
230 and under \$240						1	1	2	11	0	0	20	3
240 and under \$250					3	1	3	7	3				1
250 and under \$275		1	4		2		7			******	3	2	1
275 and under \$300	1	1	1		-		2	1	4 2		0	2	
300 and under \$325	i	3	4	2	1	3	14	1	2				1
325 and under \$350		1	4	2			5					1	
350 and under \$400		21	7		2 2	1	35						
400 and under \$450	******	8	7 5	2	5	5 7 9	27						
450 and under \$500				2		1	24						
500 and under \$550	12	20	4	14	6			. 1				1	
550 and under \$600			6	14	5	5	62	1				1	
	3	25	14	5	4	9	60					2	
600 and under \$650	9 5	11	12	3	2	19	56						
650 and under \$700		11	2	5	7	9	39						
700 and under \$750	4	8	1	7	7	9	36						
750 and under \$800	4	2	8	2	1	13	30						
800 and under \$850	1	3	4 2	2		13	23	~					
850 and under \$900	2	4	2	1		2	11						
900 and under \$950	2	1	1			2	6						
950 and under										1			
\$1,000			1	2		1	4						
Total	46	123	81	45	53	112	460	20	48	19	13	38	13

Average and Classified Full-Time Hours per Week, 1931, by Occupation

Table 6 shows for each of the occupations in air transportation, except pilots and copilots, average full-time hours per week and the per cent of employees at each specified number of hours per week.

Full-time hours per week are those established by a regular time of beginning and quitting work on each day of the week less any reg-

ular time off duty for dinner, lunch, or other meal.

The full-time hours per week of 86 per cent of the 2,911 males and of all of the females were 48.

Table 6.—AVERAGE AND CLASSIFIED FULL-TIME HOURS PER WEEK OF AIR-TRANS.
PORTATION EMPLOYEES, 1931, BY OCCUPATION

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Occupation	Num- ber of local units	of em-	Average full-time hours per week	Per cent of employees whose full-time hours per week were—										
				42 and un- der	44	48	50	501/2	54	56	60	63	70	77 and ove
Agents, traffic, male	103	175	48. 0	1		97	1		1	1				
Chauffeurs, male	17	41	48.3		2	93				5				
Clerks and stenographers, male	43	107	48. 2			95		4		1			778	
Crew chiefs, male	14	44	48.7			89			11				7+4	
Dispatchers, male	52	118	47.9	1			11					-		
Inspectors, male	13	25	48.0		4	88		8				-		
lanitors, male	30	73	53. 0		1	67			7	3	-8	1	8	
Machinists and toolmakers, male	9	19	47. 2		21	79						-	O	
Mechanics, airplane, licensed, male	23	162	48.7		10	86		2	2			-		**
Mechanics, engine, licensed, male	31	150	48.0		11	75		10	3					
male	115	588	48. 4	(1)	1	87		7	4	1				
censed, male	28	170	47.9		10	81		6	2					
Mechanics, chief, male	70	119	48.0		5	89		4	1	1				
Mechanics' helpers, licensed, male	33	60	47.7		10	88								
Mechanics' helpers, not licensed, male	77	332	48.5	(1)	4	82		5	8	(1) 2				
Porters, male	28	44	48. 2			98				2				
Radio mechanics, male	24	94	48.0			100								
Radio operators, male	81	184	48. 4			95				5				
tock clerks, male	24	82	47.9		7	84		9						
Other employees, skilled, male	53	143	48.0	1	3	92	1	2	1	1				
Other employees, unskilled, male	36	181	51.3		1	73		15	1	3	1		1	
All employees, male		2, 911	48.5	(1)	3	86	1	5	3	1	(1)	(1)	(1)	-
All employees, female	36	88	48. 0			100	- ~ ~							
All employees, male and female	214	2, 999	48.5	(1)	3	87	1	4	3	1	(1)	(1)	(1)	

¹ Less than 1 per cent.

Progress in Civil Aeronautics

Air transportation of mail and passengers is a new industry. Table 7, taken from the May, 1932, Air Commerce Bulletin, of the United States Department of Commerce, shows that the number of commercial planes in transport service increased from 69 in 1926, the first year in which the industry was of material importance, to 128 in 1927, to 325 in 1928, to 525 in 1929, to 600 in 1930, and then dropped to 590 in 1931. The number of passengers carried increased from year to year from 5,782 in 1926 to 417,505 in 1930 and 522,345 in 1931.

Only one company was operating planes on schedule as early as 1919. The industry was reported as in the experimental state until 1928, when the operation of aircraft on scheduled routes really became a recognized public service.

TABLE 7.-PROGRESS IN CIVIL AERONAUTICS, 1926 TO 1931

Item	1926	1927	1928	1929	1930	1931	
Pilots employed	(1)	107	308	562	675		
Total personnel employed	(1)	462	1,496	2, 345	3, 475	4, 290	
Number of planes in transport service	69	128	325	525	600	590	
Passengers carried on transport lines	5, 782	8, 679	49, 713	173, 405	417, 505	522, 34	
Airplane-miles flown by all operators Mileage of commercial airways in oper-	4, 318, 087	5, 870, 489	10, 673, 450	25, 141, 499	36, 945, 203	47, 385, 98	
ation	8, 404	9, 122	16, 667	36, 321	49, 549	50, 396	
Mileage of lighted airways	2,041	4, 468	6, 988	12, 448	15, 258	17, 51	
Electric and gas beacons	612	760	1, 188	1, 311	1,652	1, 836	
Municipal airports	(1)	240	368	453	550	630	

¹ Not available.

Wages and Hours of Labor in the Dyeing and Finishing of Textiles, 1930 and 1932

THIS article presents summaries of the results of studies in 1930 and 1932 by the United States Bureau of Labor Statistics of wages and hours of labor of wage earners in the dyeing and finishing of textiles in the United States. The 1932 results will be published

later in more detail in bulletin form.

The 1930 basic wage figures which were used in compiling this article were collected by agents of the bureau from the records of 109 representative dyeing and finishing plants in eight States for a pay period in March, April, or May and covered 21,482 wage earners, consisting of 17,739 males and 3,743 females. Figures for 1932 were collected from the records of 93 plants in the same States as in 1930, for a pay period in January, February, or March, and covered 19,246 wage earners, including 16,215 males and 3,031 females. The work of a vast majority of the plants included in the report consisted mainly in the dyeing and finishing of cotton textiles. In a few plants cloth made of mixtures of cotton and rayon was dyed and finished.

The 1932 wage figures in the tables of this article cover the wage earners of the dyeing and finishing department of 16 cotton mills that produce, dye, and finish cotton goods and for 77 plants that do

nothing but the dyeing and finishing of textiles.

Average Hours and Earnings, 1930 and 1932, by Occupation

Table 1 shows for each of the 42 important occupations in the dyeing and finishing of textiles, for a group designated as "Other employees," and for all occupations combined average days, hours, and earnings in one week, average earnings per hour, and the per cent of full time worked in the week, in 1930 and in 1932. The group of "other employees" includes wage earners in occupations containing too few

workers to warrant occupational tabulation.

The averages at the end of the table for males and females in all occupations combined, or for the industry as a whole, show that days worked in one week were 5.2 in 1930 and 1932; that full-time hours per week increased from 50.9 in 1930 to 51.3 in 1932; that hours actually worked in one week increased from 49.3 in 1930 to 49.9 in 1932; that they worked 96.9 per cent of full time in 1930 and 97.3 per cent in 1932; that earnings per hour decreased from 45.2 cents per hour in 1930 to 40 cents per hour in 1932; that full-time earnings per week decreased from \$23.01 in 1930 to \$20.52 in 1932, and that actual earnings in one week decreased from \$22.29 in 1930 to \$19.99 in 1932.

Average earnings per hour of males ranged in 1930 in the various occupations from 29 cents for yarn winders to \$1.247 for machine engravers, and those of females ranged from 28.1 cents for plaiters to 43.8 cents for batchers. In 1932 the averages of males ranged from 30.3 cents for pilers to \$1.021 for hand engravers, and those of females ranged from 24 cents for plaiters to 35.6 cents for measurers. Averages of males in 40, and of females in 12 occupations and of males and of females in the group of other occupations were less in 1932 than in 1930, and in 1 occupation for males were more in 1932 than in 1930.

Table 1.—AVERAGE HOURS AND EARNINGS IN THE DYEING AND FINISHING $_{\rm OF}$ TEXTILES IN 1930 AND 1932, BY OCCUPATIONS

the extract at an artist of the land of the contract of the co		Num- ber of	Num-	Average days on	Aver- age full-	ally v	s actu- vorked week	Aver- age	Aver- age full-	Aver. age actual
Occupation and sex	Year	estab- lish- ments	ber of wage earners	which employ- ees worked in week	time hours per	Average number	Per cent of full time	earn- ings per hour	earn- ings per week	earn- ings in week
Ager tenders, male	1930	23	114	5. 5	51.4	61. 3		\$0.435	\$22. 36	\$26.67
Back tenders, printing, male	1932 1930	24 26	111 374	5. 2 5. 4	51.3 51.3	56. 7 56. 8	110. 5 110. 7	.378	19, 39 23, 91	21. 43 26. 44
Balers, male	1932 1930	27	414	4.8	51.4	52.9	102.9	. 381	19. 58	20.15
THE STATE AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE	1932	36	85 78	5. 0	51.7	46.0	86. 8 89. 5	. 362	18. 72 17. 01	16. 24 15. 24
Batchers (cloth winders), male	1930 1932	41 46	300 297	5. 3 5. 3	49. 9 50. 8	48. 3 51. 5	96. 8 101. 4	. 443	22. 11 19. 15	21, 41 19, 42
Batchers (cloth winders), female	1930 1932	4 2	34	4.8	48.3 49.2	38. 9 25. 7	80. 5 52, 2	. 438	21. 16 16. 29	17.02
Bath mixers, male	1930	27	51	5.1	50. 1	49.8	99. 4	. 473	23.70	8, 50 23, 55
Calender tenders, male	1932 1930	27 72	52 537	5. 4 5. 2	51. 9 51. 4	53. 3 50. 7	102, 7 98, 6	. 394	20, 45 22, 15	20, 96 21, 81
Color mixers, male	1932 1930	72 58	507 224	5. 1	52. 1 52. 1	49. 8 55. 3	95. 6 106. 1	. 383	19. 95 25. 48	19.06 27.06
DELICH THE THEY IN A SHIPLE VIEW	1932	39	231	5, 2	52. 5	57.6	109. 7	. 387	20, 32	22. 28
Dryer tenders, male	1930 1932	82 81	804 627	5.1	51. 6	51.6	100, 8	. 435	22, 27 19, 35	22, 42 20, 09
Dryer tenders, female	1930 1932	3 2	47 16	4. 9 3. 8	48. 5 48. 3	43. 8 31. 4	90. 3 65. 0	. 299	14. 50 13. 04	13. 10 8. 50
Dyeing-machine tenders, male	1930 1932	96 80	1, 618 1, 393	4.9	50. 6 50. 8	48. 6 49. 7	96. 0 97. 8	.465	23, 53 21, 08	22, 62 20, 61
Engravers, hand, male	1930	8	27	5.9	49. 1	50.0	101.8	1. 235	60, 64	61.70
Engravers, machine, male	1932 1930	12 14	28 37	5. 5	50. 6 49. 4	50. 3 50. 7	99. 4 102. 6	1. 021 1. 247	51. 66 61. 60	51. 37 63, 18
Floor men, male	1932 1930	12 23	32 133	4. 7 5. 4	52. 7 52. 3	42. 4 54. 3	80, 5 103, 8	.818	43, 11 24, 37	34. 71 25, 31
Folders, male	1932 1930	49	366 456	5.1	50. 4 51. 3	47. 8 47. 1	94.8	. 376	18. 95 30, 11	17, 99
	1932	57 59	405	5. 2 5. 3	51.7	49. 2	95. 2	. 587	25, 75	27. 62 24. 47
Folders, female	1930 1932	29 26	247 198	5. 1 4. 9	49. 4 51. 2	42. 5 38. 9	86. 0 76. 0	368	18, 18 17, 31	15. 62 13. 14
Inspectors, male	1930 1932	46 50	345 337	5. 2 5. 4	50, 1 50, 4	47. 0 48. 0	93. 8 95. 2	. 459	23, 00 20, 56	21, 57
Inspectors, female	1930	28	269	4.8	51.8	41. 2	79. 5	. 295	15. 28	12.14
Jackmen, printing, male	1932 1930	24 19	186 70	5. 3 5. 6	52. 2 51. 2	44. 5 57. 5	85. 2 112. 3	. 249	13, 00 24, 73	11.06 27.75
Kettle men, color mixing, male.	1932 1930	18 26	64 58	5. 0 5. 3	51. 0 51. 8	56. 7 56. 3	111. 2 108. 7	. 395	20, 15 25, 12	22, 37 27, 29
and the fee of the second line of and the	1932	22	52	5.1	51. 2	56. 5	110, 4	. 424	21. 71 23. 70	23, 96
Kettle men's helpers, male	1930	10 16	80 90	4.8	49. 9 51. 3	49.6 50.8	99. 4	. 475	16, 42	16, 24
Kier boilers, male	1930 1932	54 55	154 132	5. 4 5. 3	53. 0 53. 5	56. 9 58. 4	107. 4 109. 2	. 433	22, 95 20, 92	24, 66
Knotters, female	1930	15	88	4.7	51.0	41.2	80.8	. 298	15. 20	12.31
Mangle tenders, male	1932	57	407 470	5. 2	51.4	45. 4 50. 9	88, 3 99, 4	. 267	13. 72 21. 71 18. 80	21.60
Mangle tenders, female	1932 1930	59 3	470 11	5, 2 5, 1	51. 6 50. 4	51. 5 49. 9	99. 8 99. 0	.366	18. 89 15. 62	
Measurers, male	1932 1930	111	5 46	3.6	49. 5 50. 8	34. 6 43. 2	69. 9 85. 0	. 241	11. 93 23. 22	
Measurers, female	1932 1930	17	67	5. 5	53. 4	53. 1	99.4	. 323	17. 25 21. 36	17.14
AMESSALIBRED FOR DE STORY	1932	16	80 35	5. 2	50. 5	43.1	85. 3 92. 3	. 423	18, 08	16, 6
Mercerizers, male	1930 1932	35 32	118 87	5. 1 5. 4	52.7 52.0	50. 2 56. 0	95. 3 107. 7	.434	22, 87 22, 36	24.0
Openers, male	1930 1932	43 52	152 144	5. 1	49.6 50.1	47.1	95. 0 95. 0	. 487	24. 16 19. 74	22.9
Packers, male	1930	74	342	5.4	51.8	49.1	94.8	. 394	21. 91	20.7
Pilers, male	1932 1930	69 19	255 181	5.6 4.9	52. 0 49. 4	51. 4 43. 1	98, 8 87, 2	. 367	19. 08 16. 65	14.4
Plaiters, male	1932 1930	21 35	135 259	5.0	51. 4 51. 1	46.5	90. 5 91. 6	.303	15. 57 19. 11	
Plaiters, female	1932 1930	44	202	5.1	51.8	51.1	98.6	. 308	15. 95 14. 13	15, 7
COMPANY AND INVESTOR AND AND REAL PROPERTY.	1932	1 14	6 47	5. 1 3. 8 5. 6	50, 3 49, 5 50, 9	42. 2 34. 5 52. 9	83. 9 69. 7	. 281	11.88	8, 2
Polishers, metal, male	1930 1932	14	47 30	5.6	50. 9 49. 8	52. 9 48. 7	97.8	.490	24. 94	20.7
Printing-machine tenders, male	1930 1932	28 26	313 313	5. 4 5. 3	51. 5 50. 8	54. 7 55. 2	106. 2 108. 7	1. 201 1. 019	61. 85 51. 77	56, 2
Roller turners, male	1930 1932	10	18 26	5.6	50. 5 51. 7	51.1	101. 2 86. 3	. 570	28. 79 20. 58	
Scutcher tenders, male	1932	14	40	Us A	6		E10. 0	. 4000	- w E0	ate for

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TABLE 1.—AVERAGE HOURS AND EARNINGS IN THE DYEING AND FINISHING OF TEXTILES IN 1930 AND 1932, BY OCCUPATIONS—Continued

The Street		Num- ber of	Num- ber of	Aver- age days on	Average full-	ally v	s actu- vorked veek	Aver-	Average full-time	A ver- age actual
Occupation and sex	Year	estab- lish- ments	wage earners	which employ- ees worked in week	per	Average num- ber	Per cent of full time	earn- ings per hour	earn- ings per week	earn- ings in week
Sewers, male	1930 1932	39 39	149 154	5.6	51. 2 51. 0	54. 2 52. 2	105. 9 102. 4	\$0. 389 . 332	\$19.92 16.93	\$21. 07 17. 32
Sewers, female	1932 1930 1932	56 50	504 360	4.8 5.4	51.4	41. 4 46. 0	80. 5 89. 5	312	16. 93 16. 04 14. 24	12. 93 12. 73
Singers, male	1930 1932	47 48	118 127	4.9	50. 7 51. 6	46. 4 51. 1	91. 5 99. 0	.415	21. 04 18. 89	19. 23 18. 71
Soaper tenders, male	1930 1932	27 28	192 198	5. 4 5. 2	51. 2 51. 8	58. 9 55. 0	115. 0 106. 2	.410	20. 99 18. 13	24. 18 19. 2
Soap mixers, male	1930 1932	13	34 24	5.3	51.1	59. 0 57. 7	115. 5	. 429	21. 92 20. 39	25. 26
Sprinkler tenders, male	1930 1932 1930	21 28 15	68 72 126	5. 4 5. 1 5. 1	51. 4 52. 4 48. 8	52. 7 51. 0 52. 4	102. 5 97. 3 107. 4	. 379 . 338 . 438	19. 48 17. 71 21. 37	20. 00 17. 20 22. 93
Steamer tenders, male	1932 1930	13 36	71 218	4.9	49. 4	51. 4 50. 8	104. 0	.345	17. 04 18. 87	17. 7
Swing tenders, female	1932 1930	29	160 26	5. 0 4. 4	52. 0 49. 2	51. 4 35. 5	98. 8 72. 2	. 336	17. 47 15. 25	17. 3 11. 0
Tenter-frame tenders, male	1932 1930	3 69	13 925	4. 8 5. 3	53. 7 51. 0	40. 6 51. 2	75. 6 100. 4	. 275	14. 77 22. 19	11. 1: 22. 2
Tenter-frame tenders, female	1932	69	970 122	5. 3	51. 5	53. 3	103. 5 99. 0	. 385	19.83 17.79	20. 5 17. 6
Truckers, male	1982 1980 1932	9 56 62	75 800 750	4. 9 5. 4 5. 3	50. 5 50. 6 51. 2	43. 8 51. 5 51. 2	86. 7 101. 8 100. 0	. 319 . 405 . 344	16. 11 20. 49 17. 58	13. 9 20. 8 17. 5
Tub washers, male	1930 1932	20 21	55 34	5. 5	52. 9 50. 8	56. 7 55. 3	107. 2	. 404	21. 37 18. 03	22. 9 19. 6
Washer tenders, male		60 65	931 660	4. 9 5, 2	51. 3 51. 4	48. 3 51. 8	94. 2 100. 8	.447	22. 93 19. 43	21. 5
Yarn winders, male	1930 1932	9	68 91	4. 0 3. 8	56. 2 56. 3	35. 5 32. 1	63. 2 57. 0	. 290	16. 30 19. 48	10. 2 11. 0
Yarn winders, female	1930 1932	13	385 344	4. 2	51. 9 53. 4	39. 6 39. 3	76. 3 73. 6	. 350	18, 17 13, 99	13. 8 10. 2
Other employees, male	1930 1932	109 91	6, 621 5, 935	5. 3	51. 0	51. 1	100. 2 98. 8	.475	24. 23 22. 62	24. 3
Other employees, female	1930 1932	73 71	1, 884 1, 669	5. 1 5. 3	50. 1 50. 6	43. 1	86. 0 87. 7	. 336	16. 83 15. 08	14. 4
All employees, male	1930 1932	109 93	17, 739 16, 215	5. 2 5. 2	51. 0 51. 4	50. 7 51. 1	99. 4 99. 4	.473	24. 12 21. 49	23. 9 21. 3
All employees, female	1930 1932	84 81	3, 743 3, 031	5. 0 5. 2	50. 5 51. 2	42. 4 43. 6	84. 0 85. 2	. 335	16. 92 14. 85	14. 2 12. 6
All employees, both sexes	1930 1932	109 93	21, 482 19, 246	5. 2 5. 2	50. 9 51. 3	49.3	96. 9 97. 3	. 452	23. 01 20. 52	22. 2

Average Hours and Earnings, by Sex and State, 1930 and 1932

Table 2 shows for all of the males, for all of the females, and for all males and females combined, who were included in the studies of dyeing and finishing of textiles in each State in 1930 and 1932, average days on which they worked and average full-time and actual hours and earnings per week, average earnings per hour, and the per cent of full time worked in the week.

In each State the average earnings per hour of males and of females were less in 1932 than in 1930. Those of males ranged in 1930 from 32 cents to 57.2 cents; those of females, from 22.3 cents to 38.6 cents; and those of males and females combined, from 31 cents to 55.4 cents. In 1932 the averages of males ranged from 27.8 cents to 49.7 cents, those of females from 21 cents to 35.2 cents, and those of both sexes combined from 27 cents to 47.2 cents. The average hourly earnings of males for all States were 47.3 cents in 1930 and 41.8 in 1932; those of

females were 33.5 cents in 1930 and 29 cents in 1932; and those of males and females combined were 45.2 cents in 1930 and 40 cents in 1932.

TABLE 2.—AVERAGE HOURS AND EARNINGS IN THE DYEING AND FINISHING OF TEXTILES IN 1930 AND 1932, BY SEX AND STATE

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		Num-	Num-	Aver- age days	Average full-		ectually in week	Aver-	Aver-	Aver-
Sex and State	Year	ber of estab- lish- ments	ber of wage earners	which em- ployees worked in week	time hours per week	Average number	Per cent of full time	age earn- ings per hour	time earn- ings per week	actual earn-
Males					190					
Connecticut	1930 1932	5 5	724 628	5.3 5.3	53, 5 54, 5	54. 2 53. 8	101.3	\$0.572	\$30.60	\$30.96
Massachusetts	1930 1932	9 8	4,064	5. 5	48. 9 49. 0	52. 7	98. 7 107. 8	. 485	26, 43 21, 17	26, 09 22, 80
New Jersey	1930	16	3, 174 5, 503	5. 3 5. 1	49.8	52. 1 48. 0	106. 3 96. 4	. 379	18. 57 26. 05	19, 76 25, 09
New York	1932 1930	18	5, 298 1, 303	5. 3 5. 0	50. 3 48. 9	49. 8 45. 3	99. 0 92. 6	. 476	23, 94 25, 43	23. 69 23. 58
North Carolina	1932 1930	10 43	1, 063 1, 784	5. 1 4. 8	48. 9 55. 0	45. 7 47. 1	93. 5 85. 6	. 417	20. 39 17. 60	19. 07 15. 05
Pennsylvania	1932 1930	25 12	1, 610 923	5. 0 5. 1	54. 4 53. 3	48. 3 51. 4	88. 8 96. 4	. 296	16, 10 29, 10	14. 29 28. 09
Rhode Island	1932 1930	12 10	865 2, 568	5. 1 5. 5	52. 2 52. 5	53. 4 54. 9	102. 3 104. 6	. 497	25, 94 26, 83	26, 56 28, 03
South Carolina	1932 1930 1932	10 5 5	2, 447 870 1, 130	5. 2 5. 6 5. 6	52. 9 55. 0 55. 2	50. 8 58. 6 61. 2	96. 0 106. 5 110. 9	. 453 . 332 . 278	23. 96 18. 26 15. 35	23. 03 19. 43 17. 01
Total	1930 1932	109 93	17, 739 16, 215	5. 2 5. 2	51. 0 51. 4	50. 7 51. 1	99. 4 99. 4	. 473	24. 12 21. 49	23. 99
Females										
Connecticut	1930	5	85	5. 2	53. 4	49.7	93. 1	. 386	20. 61	19. 20
Massachusetts	1932 1930	3 8	71 813	5. 3 5. 3	53. 9 48. 0	49. 6 41. 3	92. 0 86. 0	. 349	18, 81 15, 02	17. 34 12. 90
New Jersey	1932 1930	7 16	577 1, 077	5. 7 5. 0	48. 0 48. 6	43. 2 40. 5	90. 0 83. 3	. 286	13. 73 18. 32	12. 34 15. 27
New York	1932 1930	18	741 218	5. 2 4. 9	48. 7 48. 5	40. 6 40. 6	83. 4 83. 7	. 352	17. 14 16. 64	14. 29 13. 90
North Carolina	-1932 -1930	9 20	154 863	4.5	48. 7 54. 0	38. 4 42. 0	78. 9 77. 8	. 285	13. 88 15. 55	10. 9. 12. 10
Pennsylvania	1932 1930	20 11	797 230	4.8	54. 5 51. 7	43. 7 43. 8	80. 2 84. 7	. 232	12. 64 18. 20	10. 1. 15. 4:
Rhode Island	1932 1930	9	204 359	5. 0	51. 7 52. 5	44. 6 47. 2	86. 3 89. 9	.338	17. 47 19. 79	15. 0° 17. 7°
	1932 1930	10	337	5. 2	52. 9	44. 2	83. 6	.316	16. 72 12. 27	13. 9 12. 1
South Carolina	1932	5 5	98 150	6. 1 5. 7	55. 0 55. 0	54. 4 58. 5	98. 9 106. 4	. 210	11. 55	12. 2
Total	1930 1932	84 81	3, 743 3, 031	5. 0 5. 2	50. 5 51. 2	42. 4 43. 6	84. 0 85. 2	. 335	16. 92 14. 85	14. 2 12. 6
Males and females					1777					
Connecticut	1930	5	809	5. 3	53. 4	53.7	100. 6	. 554	29, 58	29. 7
Massachusetts	1932 1930	5 9	699 4, 877	5. 3	54. 4 48. 8	53. 3 50. 8	98. 0 104. 1	.472	25. 68 20. 35	25. 2 21. 1
New Jersey	1932 1930	8 16	3, 751 6, 580	5. 3 5. 1	48. 9 49. 6	50. 8 46. 8	103. 9 94. 4	. 367	17. 95 24. 90	18. 6. 23. 4
New York	1932 1930	18	6, 039 1, 521	5. 3 5. 0	50. 1 48. 8	48. 7 44. 7	97. 2 91. 6	. 463	23, 20 24, 25	22. 5 22. 2
North Carolina	1932 1930	10 43	1, 217 2, 647	5.0	48. 9 54. 7	44. 8 45. 4	91. 6 83. 0	. 403	19. 71 16. 96	18. 0 14. 0
Pennsylvania	1932 1930	25 12	2, 407 1, 153	4. 9 5. 0	54. 4 53. 0	46. 8 49. 9	86. 0 94. 2	. 276	15. 01 27. 14	12. 9 25. 5
Rhode Island	1932 1930	12 10	1, 069 2, 927	5. 1 5. 4	52. 1 52. 5	51. 7 53. 9	99. 2 102. 7	. 471	24. 54 26. 09	24. 3 26. 7
South Carolina	1932 1930 1932	10 5 5	2, 784 968 1, 280	5. 2 5. 6 5. 6	52. 9 55. 0 55. 1	50. 0 58. 2 60. 9	94. 5 105. 8 110. 5	. 439 . 321 . 270	23. 22 17. 66 14. 88	21.9 18.7 16.4
Total	1930 1932	109	21, 482 19, 246	5. 2 5. 2	50. 9 51. 3	49.3	96. 9 97. 3	. 452	23. 01 20. 52	22. 2 19. 9

Average Hours and Earnings in Selected Occupations, 1932

Table 3 presents for the wage earners covered in each State in 1932, in each of 12 representative occupations in the dyeing and finishing of textiles, average days worked and average full-time and actual hours and earnings in one week, average earnings per hour, and the per cent of full time worked in the week. The figures for these occupations illustrate the variations in hours and earnings of wage earners in all occupations in dyeing and finishing in the different

States included in the report.

Average days on which calender tenders, the first occupation in the table, worked in one week ranged, by States, from 4.6 to 5.5, and the average for all States was 5.1. Average full-time hours per week ranged from 49 to 55.6, the average for all States being 52.1. Average actual hours worked in one week ranged from 41.9 to 57.8, and the average for all States was 49.8. Average earnings per hour ranged from 27.4 cents to 45.7 cents, with the average for all States, 38.3 cents. Average full-time earnings per week ranged from \$15.23 to \$24.63, the average for all States being \$19.95. Average actual earnings in one week ranged from \$14.45 to \$23.49, with a general average for all States of \$19.06. Wage earners in four States averaged more than full time and in four States less than full time, while in all States the per cent of full time worked was 95.6.

TABLE 3,—AVERAGE HOURS AND EARNINGS FOR 12 SPECIFIED OCCUPATIONS IN DYEING AND FINISHING OF TEXTILES IN 1932, BY SEX AND STATE

	Num- ber of	Num- ber of	Average days on	Average full-	Hours actu- ally worked in week		Average	Average full-	Average actual
Occupation, sex, and State	estab- lish- ments	wage earn- ers	which em- ployees worked in week	time hours per week	Average number	Per cent of full time	earn- ings per hour	earn- ings per week	earn- ings in week
Calender tenders, male:									
Connecticut	3	45	4.7	53. 9	44.8	83, 1	\$0, 457	\$24, 63	\$20, 48
Massachusetts		111	5. 1	49.8	52. 9	106. 2	. 339	16, 88	17, 91
New Jersey	17	76	5.3	51.7	53, 1	102.7	.442	22.85	23, 49
New York	10	62	4.6	49.0	41. 9	85, 5	.414	20, 29	17. 3/
North Carolina	11	35	5, 5	54.0	50. 9	94.3	. 284	15, 34	14. 45
Pennsylvania	8	20	5, 3	53. 3	55. 1	103. 4	. 425	22.65	23, 43
Rhode Island	10	104	4.8	53. 0	45. 2	85.3	. 439	23, 27	19.84
South Carolina	5	54	5. 5	55, 6	57.8	104. 0	. 274	15. 23	15. 83
Total	72	507	5. 1	52. 1	49.8	95. 6	. 383	19, 95	19.06
Dryer tenders, male:									
Connecticut	5	15	5. 5	53. 7	61.0	113.6	. 392	21.05	23. 88
Massachusetts	8	100	5.4	50, 0	54. 9	109.8	. 332	16, 60	18. 23
New Jersey	18	221	5.3	51.0	54. 1	106.1	. 432	22.03	23, 36
New York	8	57	5.0	48.7	51.4	105. 5	. 383	18.65	19, 69
North Carolina	16	47	5. 1	54.3	51. 5	94.8	. 258	14. 01	13, 29
Pennsylvania	12	38	5. 1	53, 0	48.7	91.9	. 446	23, 64	21, 72
Rhode Island	10	102	5. 2	52.3	51. 7	98. 9	. 380	19, 87	19, 6
South Carolina	4	47	5.3	55. 3	59. 7	108. 0	. 241	13, 33	14. 42
Total	81	627	5. 2	51.6	53. 6	103, 9	. 375	19. 35	20.09
Dryer tenders, female:						IXII TYT			
New Jersey	1	13	3.8	48.0	29.5	61.5	. 285	13, 68	8, 39
New York	1	3	4.0	49.5	40. 0	80.8	. 223	11.04	8. 93
Total	- 2	16	3.8	48.3	31. 4	65. 0	. 270	13. 04	8. 50

TABLE 3.—AVERAGE HOURS AND EARNINGS FOR 12 SPECIFIED OCCUPATIONS IN DYEING AND FINISHING OF TEXTILES IN 1932, BY SEX AND STATE—Continued

	Num- ber of	Num- ber of	Average days on	Aver- age full-	ally w	s actu- vorked veek	Average	Average full-	Aver- age
Occupation, sex, and State	estab- lish- ments	wage earn- ers	which em- ployees worked in week	time hours per week	Average number	Per cent of full time	earn- ings per hour	time earn- ings per week	actual earn- ings in week
Dyeing machine tenders, male: Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina	3 7 18 9 18 12 10 3	38 132 658 71 94 181 175 44	5. 2 4. 9 5. 2 6. 4 4. 7 4. 7 4. 8 5. 2	53. 8 49. 1 50. 1 48. 7 53. 2 52. 0 51. 5 55. 0	53. 3 50. 1 51. 5 51. 5 48. 8 44. 5 45. 5 55. 5	99. 1 102. 0 102. 8 105. 7 91. 7 85. 6 88. 3 100. 9	\$0.418 .331 .439 .387 .266 .496 .443 .266	\$22.49 16.25 21.99 18.85 14.15 25.79 22.81 14.63	\$22, 29 16, 55 22, 61 19, 94 12, 95 22, 09 20, 15 14, 78
Total	80	1, 393	5. 1	50.8	49.7	97.8	. 415	21.08	20, 61
Folders, male: Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina	7 6 13 8	11 90 50 35 57 24 99 39	5. 6 5. 1 5. 5 4. 8 5. 3 5. 3 5. 2 5. 8	54. 1 49. 0 51. 6 48. 5 53. 9 50. 6 52. 8 55. 0	57. 3 45. 3 56. 4 38. 7 48. 8 47. 6 48. 3 59. 8	105. 9 92. 4 109. 3 79. 8 90. 5 94. 1 91. 5 108. 7	. 576 . 477 . 613 . 533 . 320 . 436 . 588 . 408	31. 16 23. 37 31. 63 25. 58 17. 25 22. 06 31. 05 22. 44	33.00 21.61 34.57 20.62 15.61 20.77 28.40 24.42
Total	59	405	5. 3	51.7	49. 2	95. 2	. 498	25, 75	24, 47
Folders, female: Massachusetts New Jersey New York North Carolina Rhode Island South Carolina	2	39 54 2 66 27 10	5. 8 5. 1 3. 0 4. 4 4. 6 5. 4	48. 0 48. 1 48. 0 54. 8 51. 7 55. 0	38. 5 35. 2 25. 4 39. 9 39. 9 52. 6	80. 2 73. 2 52. 9 72. 8 77. 2 95. 6	. 541 . 418 . 449 . 190 . 356 . 164	25. 97 20. 11 21. 55 10. 41 18. 41 9. 02	20. 86 14. 72 11. 41 7. 60 14. 20 8. 64
Total	26	198	4. 9	51. 2	38.9	76. 0	. 338	17. 31	13. 14
Inspectors, male: Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina	1 4 11 5 11 8 6 4	3 50 158 24 34 27 29 12	5. 3 5. 4 5. 3 5. 3 5. 2 5. 6 5. 2 5. 9	55. 0 48. 0 49. 1 49. 6 53. 8 52. 9 53. 4 55. 0	50. 2 48. 8 47. 6 44. 1 46. 3 52. 6 44. 4 60. 2	91. 3 101. 7 96. 9 88. 9 86. 1 99. 4 83. 1 109. 5	. 429 . 322 . 457 . 390 . 269 . 448 . 509 . 261	23, 60 15, 46 22, 44 19, 34 14, 47 23, 70 27, 18 14, 36	21. 55 15. 66 21. 77 17. 19 12. 42 23. 57 22. 60 15. 66
Total	50	337	5.4	50.4	48.0	95. 2	. 408	20.56	19.60
Inspectors, female: Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina	8 2 2 1	1 23 39 12 88 5 11 7	3. 0 5. 8 5. 2 5. 0 5. 3 5. 8 5. 6 5. 0	55. 0 48. 0 48. 2 48. 0 55. 2 52. 8 51. 0 55. 0	29. 0 41. 6 38. 0 39. 8 47. 2 52. 6 51. 0 50. 0	52. 7 86. 7 78. 8 82. 9 85. 5 99. 6 94. 4 90. 9	. 350 . 238 . 336 . 301 . 213 . 349 . 256 . 155	19. 25 11. 42 16. 20 14. 45 11. 76 18. 43 13. 82 8. 53	10. 13 9. 99 12. 78 11. 96 10. 00 18. 33 13. 06 7. 70
Total	24	186	5. 3	52. 2	44. 5	85. 2	. 249	13.00	11.00
Mangle tenders, male: Connecticut. Massachusetts. New Jersey. New York. North Carolina. Pennsylvania. Rhode Island. South Carolina. Total.	5 12 8 11 8 9	15 43 131 69 49 15 93 55	5. 0 5. 0 5. 6 4. 6 5. 5 5. 1 5. 3 5. 2	52. 7 49. 0 51. 4 48. 6 54. 4 52. 4 51. 4 55. 2	49. 6 49. 3 52. 3 41. 7 54. 9 49. 1 52. 7 59. 4	94. 1 100. 6 101. 8 85. 8 100. 9 93. 7 102. 5 107. 6	.448 .320 .428 .390 .273 .429 .392 .254	23. 61 15. 68 22. 00 18. 95 14. 85 22. 48 20. 15 14. 02	22, 21 15, 79 22, 37 16, 26 14, 95 21, 05 20, 67 15, 08
Printing-machine tenders, male:	- 09	4/0	0. 2	01. 0	01. 0	99. 8	. 300	10. 59	19, 90
Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island	3 6 6 1 2 1 6	24 92 74 4 14 17 65	5. 0 5. 4 5. 9 5. 0 5. 3 5. 1 5. 0	55. 4 49. 1 48. 9 47. 5 50. 4 48. 8 52. 9	52, 5 57, 0 50, 0 50, 5 52, 5 69, 2 54, 5	94. 8 116. 1 102. 2 106. 3 104. 2 141. 8 103. 0	. 975 1. 063 1. 070 1. 309 . 330 1. 475 1. 132	54. 02 52. 19 52. 32 62. 18 16. 63 71. 98 59. 88	51. 2 60. 5 53. 4 66. 0 17. 3 102. 0 61. 7
South Carolina	1	23	5.0	55. 0	61. 5	111.8	. 417	22. 94	25, 63

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TABLE 3.—AVERAGE HOURS AND EARNINGS FOR 12 SPECIFIED OCCUPATIONS IN DYEING AND FINISHING OF TEXTILES IN 1932, BY SEX AND STATE—Continued

17 mowhal gasse	Num- ber of	Num- ber of	Average days on	Average full-	ally w	s actu- vorked veek	Aver-	Average full-	Aver- age actual
Occupation, sex, and State	estab- lish- ments	wage earn- ers	which em- ployees worked in week	time	Average number	Per cent of full time	earn- ings per hour	time earn- ings per week	earn- ings in week
Sewers, male: Connecticut				** 0	40.0	07.0	** ***	404 50	***
Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina	5 8 3 8 4 7	5 64 26 5 16 8 28 2	5. 0 5. 2 5. 3 5. 2 5. 2 5. 4 5. 5 5. 5	55. 0 48. 2 52. 3 49. 3 53. 8 51. 9 53. 6 55. 0	48. 0 51. 0 52. 8 45. 4 49. 2 58. 4 56. 4 56. 0	87. 3 105. 8 101. 0 92. 1 91. 4 112. 5 105. 2 101. 8	\$0. 396 . 285 . 436 . 444 . 231 . 387 . 355 . 189	\$21. 78 13. 74 22. 80 21. 89 12. 43 20. 09 19. 03 10. 40	\$19. 00 14. 51 23. 02 20. 15 11. 36 22. 60 20. 02 10. 59
Total	39	154	5.3	51. 0	52. 2	102. 4	. 332	16. 93	17. 32
Sewers, female: Connecticut	2 6 13 6 7 5 8	12 70 76 13 129 10 30 20	4. 3 5. 4 5. 4 4. 5 5. 8 5. 5 4. 8 5. 4	52. 9 47. 8 48. 5 48. 2 54. 8 51. 5 51. 2 55. 0	40. 9 39. 3 42. 8 36. 9 52. 6 49. 5 40. 5 54. 4	77. 3 82. 2 88. 2 76. 6 96. 0 96. 1 79. 1 98. 9	. 309 . 244 . 330 . 330 . 252 . 335 . 336 . 222	16. 35 11. 66 16. 01 15. 91 13. 81 17. 25 17. 20 12. 21	12. 64 9. 59 14. 13 12. 21 13. 28 16. 60 13. 58 12. 06
Total		360	5, 4	51. 4	46. 0	89. 5	. 277	14. 24	12. 73
Tenter frame tenders, male: Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina	4 7 17 10 10 7 10	22 146 452 69 54 38 123 66	5. 6 5. 2 5. 5 5. 1 4. 9 5. 4 5. 1 5. 6	54. 5 50. 0 50. 8 49. 1 53. 0 53. 3 53. 4 55. 8	65. 9 55. 2 51. 9 50. 5 47. 0 58. 9 50. 9 64. 5	120. 9 110. 4 102. 2 102. 9 88. 7 110. 5 95. 3 115. 6	. 452 . 320 . 430 . 378 . 271 . 428 . 405 . 261	24. 63 16. 00 21. 84 18. 56 14. 36 22. 81 21. 63 14. 56	29. 78 17. 65 22. 33 19. 10 12. 73 25. 23 20. 63 16. 80
Total	69	970	5, 3	51. 5	53, 3	103. 5	. 385	19. 83	20, 55
Tenter frame tenders, female: Connecticut New Jersey New York Pennsylvania Rhode Island	3 1 2 2	5 32 13 11 14	5. 8 5. 3 3. 3 4. 7 5. 1	55. 0 48. 6 49. 5 53. 9 51. 4	53. 2 47. 1 31. 0 41. 4 46. 6	96. 7 96. 9 62. 6 76. 8 90. 7	. 438 . 327 . 240 . 314 . 302	24. 09 15. 89 11. 88 16. 92 15, 52	23. 30 15. 41 7. 44 13. 00 14. 09
Total	9	75	4. 9	50. 5	43. 8	86. 7	.319	16. 11	13. 95
Truckers, male: Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina	7 13 8 11 8 9 4	29 188 199 51 82 41 91 69	5. 4 5. 3 5. 4 5. 4 5. 2 5. 1 5. 0 5. 7	48. 8 54. 3 53. 4 53. 5 55. 0	50. 7 51. 9 49. 0 47. 3 48. 5 56. 9 49. 6 60. 5	96. 9 89. 3 106. 6 92. 7 110. 0	.370 .236 .373 .361 .235	23, 35 15, 32 21, 28 18, 06 12, 81 19, 92 19, 31 12, 93	21. 82 16. 32 21. 00 17. 52 11. 43 21. 20 17. 88 14. 24
Total	62	750	5. 3	51. 2	51. 2	100. 0	. 344	17. 58	17. 58
Washer tenders, male: Connecticut Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island South Carolina Total	3 6 15 8 11 7 10 5	29 85 295 41 36 22 98 54	5. 2 5. 2 5. 1 5. 0 5. 0 5. 2 5. 4 5. 4	53. 4 48. 2 51. 1 48. 9 54. 2 52. 1 52. 1 55. 2	51. 4 53. 0 51. 2 45. 3 50. 7 54. 3 50. 2 61. 1	96. 3 110. 0 100. 2 92. 6 93. 5 104. 2 96. 4 110. 7	. 428 . 309 . 437 . 372 . 248 . 458 . 369 . 240	22. 86 14. 89 22. 33 18. 19 13. 44 23. 86 19. 22 13. 25	22, 02 16, 37 22, 35 16, 83 12, 56 24, 89 18, 52 14, 67
Yarn winders male	65	660	5. 2	31. 4	01.8	100.8	.018	19, 43	19. 58
North Carolina	4 1 8	91 8 270	3. 8 3. 9 4. 2	56. 3 48. 0 53. 8	32. 1 31. 6 39. 4	57. 0 65. 8 73. 2	. 346	19. 48 11. 76 13. 45	7. 73 9. 85
Pennsylvania	4	66	4.8	52. 6	40. 1	76. 2	. 309	16, 25	12. 41
Total	13	344	4.3	53. 4	39. 3	73.6	. 262	13. 99	10. 29

Wage-rate Changes in American Industries

Manufacturing Industries

DATA concerning wage-rate changes occurring between May 15 and June 15 in 89 manufacturing industries included in the monthly employment survey of the Bureau of Labor Statistics are

presented in the following table.

Of the 18,492 manufacturing establishments furnishing employment data in June, 17,531 establishments, or 94.8 per cent of the total, reported no change in wage rates during the month ending June 15, 1932. The employees whose wage rates were reported unchanged over the month interval totaled 2,372,062, comprising 91.8 per cent of the total number of employees included in this survey of manufacturing industries.

Decreases in rates of wages were reported by 961 establishments, or 5.2 per cent of the total number of establishments reporting. These decreases, averaging 12.7 per cent, affected 213,046 employees, or 8.1 per cent of all employees in the establishments reporting.

No wage increases were reported.

TABLE 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING JUNE 15, 1932

Industry	Estab- lish- ments	Total number of	Numbe tablish report	ments	Number ployees h	
Hiddstry	report- ing	employees	No wage changes	Wage de- crease	No wage changes	Wage de- creases
All manufacturing industries Per cent of total		2, 585, 108 100. 0	17, 531 94. 8	961 5. 2	2, 372, 062 91. 8	213, 046
Slaughtering and meat packing.	226	82, 955	215	11	74, 845	8, 110
Confectionery		28, 065	328	9	26, 759	1, 300
Ice cream		14, 791	377	19	13, 561	1, 230
Flour	437	16, 043	427	10	15, 801	245
Baking	947	63, 724	907	40	61, 172	2, 552
Sugar refining, cane	16	7, 935	16		7, 935	
Beet sugar	48	3, 102	47	1	3, 065	37
Beverages	360	11, 737	354	6	11, 490	247
Butter		6, 359	295	19	5, 932	427
Cotton goods.	683	172, 504	619	64	148, 389	24, 113
Hosiery and knit goods	468	95, 386	438	30	89, 209	6, 177
Silk goods	258	30, 522	247	11	28, 643	1,879
Woolen and worsted goods	261	38, 763	228	33	32, 824	5, 939
Carpets and rugs	32	10, 452	29	3	9, 907	545
Dyeing and finishing textiles	152	31, 252	138	14	28, 956	2, 296
Clothing, men's	373	48, 505	364	9	45, 995	2, 510
Shirts and collars	112	13, 407	108	4	13, 172	235
Clothing, women's	382	24, 032	380	2	23, 849	183
Millinery		7, 141	132	4	7, 045	96
Corsets and allied garments	30	5, 512	28	2	5, 363	149
Hats, fur-felt	112 39	8, 603 4, 534	105	7	8, 442	161
Men's furnishings	74	5, 160	73	1	4, 534	140
Iron and steel	221	184, 856	135	86	5, 020 100, 623	84, 233
Cast-iron pipe	40	5, 976	40	00	5, 976	01, 200
Structural and ornamental ironwork	191	16, 626	173	18	12, 562	4, 064
Hardware	111	22, 572	104	7	21, 764	808
Steam fittings, and steam and hot-water heating	***	22,012	101	'	21, 101	000
apparatus	109	15, 729	101	8	13, 928	1, 801
Stoves	161	14, 394	158	3	14, 165	229
Bolts, nuts, washers and rivets	65	8, 499	57	8	7, 093	1, 406
and edge tools	336	9, 703	326	10	7, 985	1,718
Forgings, iron and steel	63	5, 581	58	5	4, 469	1, 112
Plumbers' supplies	66	4, 716	63	3	4, 483	233
Tin cans and other tinware. Tools (not including edge tools, machine tools,	57	7, 922	54	3	7, 814	108
files or saws)	137	7, 218	132	5	6, 668	550

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Wirey Luml Luml Furn Turp Leath Boots Pape Prin Prin Cher

Cher Ferti Petro Cott Drug Exp Pair Ray Soan Cem Brice Pot

Gla Ma Sta

Clo m Gas Pla Sm Jev Ch Ci

Jev Ch Cia Au Ai Ca Sh Ri Ri Ri Ri Ri Ri E

Table 1.—WAGE CHANGES IN MANUFACTURING INDUSTRIES DURING MONTH ENDING JUNE 15, 1932—Continued

Industry	Estab-	Total	Numbe tablish report	ments	Number ployees ha	
Industry	ments report- ing	number of employees	No wage changes	Wage de- crease	No wage changes	Wage de- creases
Wirework	72	5, 339	62	10	3, 373	1, 966
Lumber, sawmills	652	60, 071	613	39	54, 536	5, 535
Lumber, millwork	469	19, 245	438	31	18, 308	937
Furniture	487	39, 463	461	26	37, 769	1, 694
Turnentine and rosin	22	1,066	22		1, 066	-,
Leather	164	22, 596	151	13	19, 781	2, 813
Roots and shoes	335	97, 926	327	8	96, 215	1, 71
Paper and pulp	419	77, 638	378	41	69, 920	7, 718
Paper boxes	313	20, 113	305	8	19, 401	713
Printing, book and tob	755	51, 391	716	39	49, 238	2, 153
Printing, newspapers and periodicals	451	66, 430	433	18	63, 217	3, 213
Chemicals	125	20, 377	119	6	17, 485	2, 895
Fertilizers	206	4, 536	196	10	4, 434	103
Petroleum refining	114	44, 784	114		44, 784	*****
Cottonseed oil, cake, and meal.	48	1, 259	47	1	1, 255	
Druggists' preparations	37	5, 898	36	1	5, 600	29
Explosives	21	2, 728	21		2, 728	
Paints and varnishes	359	15, 479	344	15	15, 162	31
Rayon	21	17, 729	20	1	17, 403	32
Soap	86	12, 406	86		12, 406	
Cement	123	13, 690	114	9	11, 722	1, 96
Brick, tile, and terra cotta	703	20, 512	662	41	17, 801	2, 71
Pottery	121	14, 019	120	1	13, 966	5
Glass	192	33, 727	184	8	32, 759	96
Marble, granite, slate, and other stone products	228	4, 408	211	17	3, 959	449
Stamped and enameled ware	91	13, 158	87	4	12, 716	44
Brass, bronze, and copper products	202	27, 315	196	6	27, 175	14
Aluminum manufactures	28	4, 819	26	2	3, 525	1, 29
ments	24	4, 679	20	4,	4, 479	20
reflectors	59	5, 060	56	. 3	4, 999	6
Plated ware	54	7, 287	54		7, 287	
melting and refining copper, lead, and zinc	27	7,842	24	3	7, 386	45
ewelry	153	7, 284	149	4	7, 131	15
hewing and smoking tobacco and snuff	37	10, 318	37		10, 318	
Cigars and cigarettes	222	46, 720	221	1	46, 678	4
Automobiles	242	221, 188	231	11	219, 680	1, 50
Aircraft	35	6, 646	33	2	6, 634	1
ars, electric and steam railroad		4, 457	34		4, 457	
ocomotives	14	3,006	14		3, 006	
Shipbuilding	97	31, 760	92	5	31, 609	15
Rubber tires and inner tubes	39	45, 381	39		45, 381	
Rubber boots and shoes	10	10, 650	10		10, 650	
inner tubes	103	18, 468	102	1	18, 419	4
gricultural implements.	73	4, 445	72	1	4, 432	1
electrical machinery, apparatus, and supplies	303	127, 851	293	10	125, 229	2, 62
ngines, turbines, tractors, and water wheelsash registers, adding machines, and calculating	80	15, 048	79	1	14, 949	9
machines	45	14, 918	43	2	14, 267	65
oundry and machine-shop products	1,090	105, 564	1, 021	69	100, 558	5, 00
Machine tools	153	11, 639	149	4	11, 359	28
extile machinery and parts	33	5, 606	32	1	4, 556	1, 05
ypewriters and supplies		9, 017	16	2	5, 006	4, 01
Radio	42	16, 230	38	4	15, 274	95
Electric-railroad repair shops	392	20, 912	372	20	20, 542	37
team-railroad repair shops	519	70, 734	516	3	70, 634	10

Nonmanufacturing Industries

In the following table are presented data concerning wage-rate changes occurring between May 15 and June 15, 1932, reported by 14 nonmanufacturing groups included in the bureau's monthly employment survey.

Decreases in wage rates were reported by establishments in each of the 14 groups, with the exception of anthracite mining in which

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no change in wage rates was shown. The lowest average per cent of decrease in wage rates, 6.0, was reported in the crude petroleum group, while the highest average per cent, 18.1, was reported in the canning and preserving group. The average per cent of decrease in the remaining groups ranged from 8.6 in the telephone and telegraph group to 15.1 in metalliferous mining.

No wage increases were reported.

Table 2.—WAGE CHANGES IN NONMANUFACTURING INDUSTRIES DURING MONTH ENDING JUNE 15, 1932

	Estab-	Total number		er of es- aments ting—	Number of er ployees having	
Industrial groups	ments report- ing	of employees	No wage changes	Wage de- creases	No wage changes	Wage de- creases
Anthracite mining Per cent of total	160 100. 0	72, 455 100. 0	160 100. 0		72, 455 100, 0	
Bituminous coal mining Per cent of total		149, 592 100. 0	1, 104 96, 7	38 3. 3	142, 340 95, 2	7, 255 4. 8
Metalliferous mining	247 100. 0	19, 630 100. 0	233 94, 3	14 5. 7	18, 869 96, 1	76 3.1
Quarrying and nonmetallic mining. Per cent of total	634 100. 0	23, 556 100. 0	610 96, 2	24 3. 8	22, 257 94. 5	1, 299
Crude petroleum producing Per cent of total	278 100. 0	21, 475 100. 0	276 99. 3	0.7	21, 438 99. 8	3° 0.
Telephone and telegraph Per cent of total		282, 548 100. 0	7, 977 99. 6	34 0. 4	281, 626 99. 7	92 0.
Power and lightPer cent of total	3, 470 100. 0	221, 553 100. 0	3, 461 99, 7	0.3	220, 426 99. 5	1, 12
Electric railroad and motor bus operation and main- tenance. Per cent of total	503 100. 0	131, 195 100. 0	487 96, 8	16 3, 2	129, 784 98, 9	1, 41
Wholesale trade Per cent of total	2, 756 100. 0	71, 071 100. 0	2, 679 97. 2	77 2.8	69, 992 98, 5	1, 07
Retail tradePer cent of total	13, 311 100. 0	336, 695 100. 0	13, 173 99. 0	138 1.0	334, 225 99. 3	2, 47
HotelsPer cent of total	2, 428 100. 0	135, 574 100. 0	2,370 97.6	58 2, 4	130, 775 96, 5	4, 79
Canning and preserving Per cent of total	857 100. 0	41, 070 100. 0	839 97. 9	18 2.1	40, 066 97. 6	1,00
LaundriesPer cent of total	985 100. 0	60, 563 100. 0	962 97. 7	23 2.3	59, 241 97. 8	1, 32
Dyeing and cleaning Per cent of total Per cent o	392 100. 0	12, 308 100. 0	385 98. 2	7 1.8	11, 823 96. 1	48

Wage Changes Reported by Trade-Unions Since April, 1932

CHANGES in the wages and hours of trade-unionists and municipal employees, reported to the Bureau of Labor Statistics during the past month and covering the past four months, are shown in the following table. The number of workers covered by the tabulation is 29,695, of whom 972 were reported to have gone on the 5-day week. In addition to those tabulated, barbers, Boston, Mass.; painters, Dayton, Ohio; retail clerks, Seattle, Wash.; and taxicab drivers, Portland, Oreg., reported renewals of old wage agreements.

RECENT WAGE CHANGES, BY INDUSTRY, OCCUPATION, AND LOCALITY, APRIL TO JULY, 1932

	-	Rate of	wages	Hours p	er weel
Industry or occupation, and locality	Date of change	Before change	After change	Before change	After
akers:	1-1-4-	Per week	Per week		
Coney Island, N. Y.— Oven workers or mixers	Apr. 15	\$52,00	\$49.00	48	48
Bench men	do	48. 00	45. 00	48	48
Helpers	May 1	40. 00	36, 00	48	48
Missoula, Mont	May 1	(1)	(2)	48	48
New Orleans, La.—		f 41.00	36, 90	48	48
Foremen	May 7	37.00	33, 30	48	48
A STATE OF THE STA		33. 00	29. 70	48	48
Mixers	do	31.00	27. 90	48	48
Oven men	May 15	31.00	27. 90	48	48
arbers, Port Angeles, Wash	May 15	27. 00	20, 00	56	56
rewery and soft-drink workers: Denver, Colo	May 1	27, 00-30, 00	24, 00-26, 00	₹ 8-9	3 8-9
San Francisco, Calif	May 15	42.00	40. 00	38	38
uilding trades workers:	may 10	1	10. 00	1	
Bricklavers-		Per hour	Per hour		
Fresno, Calif., and vicinity	Apr. 1	1, 50	1. 25	40	40
Kingston, N. Y	May 11	1. 65	1. 50	40	40
North Adams, Mass., and vicinity,	Y	1 50	1.0*	40	40
bricklayers and masons	June 1	1. 50	1. 25	40	40
St. Louis, Mo., mosaic and terrazzo workers	May -	1. 371/2	1. 25	44	44
San Francisco, Calif., and vicinity,	May	1. 01 72	1. 20	44	- 11
marble setters	June 15	1, 25	1.00	40	40
Texarkana, ArkTex	May 8	1. 371/2	1. 25	44	44
Wingdale, N. Y	May 13	1. 65	1. 371/2	3.8	18
Carpenters—		1 101/	1 00		
Hazleton, Pa., and vicinity		1. 12½ 1. 00	1. 00 1. 00	44	44
Houston, Tex		1.00	1.00	44	40
Indianapolis, Ind.	July 1	1, 00	1, 05	441/2	
Electrical workers—		1	4,00	1	
Fresno, Calif	Apr. 18	1. 25	1.00	40	40
Rochester, N. Y., and vicinity	May 1	1. 4436	1. 151/2	40	40
Hod carriers and laborers—	4 00	1 101/	D#1/	4.	
'Anaconda, Mont., cement workers Boston, Mass., and vicinity	Apr. 28 May —	1. 12½ 1. 00	87½ . 90	44 48	44
Brockton, Mass.		. 921/2	. 75	44	40
Holyoke, Mass., and vicinity		. 95		44	40
House wreckers, New York		1. 25-1. 35	. 65 75	40	40
Painters—					
Bergen County, N. J.	Apr. 18	1. 50	1. 25	40	40
Boston, Mass	Lay 1	1. 37½ 1. 10	1. 121/2		40
Brockton, Mass Brookline, Mass	May 1	1. 371/2	1. 00 1. 121/6	40	40
Davenport, Iowa	Apr. 1	1. 15	1. 00	40	40
Indianapolis, Ind		1. 25	1. 061/2		4
		Per day	Per day		
New York, N. Y., sign writers	May 2	14. 70	13, 20	40	40
		Per hour	Per hour		
Passaic County, N. J.	Apr. 18	1, 50	1. 25	40	40
Pittsburgh, Pa., and vicinity	May 28	1, 25	1. 1834		40
Schenectady, N. Y.	May 1	1. 371/2		40	40
Plasterers, North Adams, Mass., and vicin-	-				
ity	June 1	1. 50	1. 25	40	40
Plumbers—	Apr. 8	1, 25	1.05	44	4
Gloucester, Mass Montelair, N. J., and vicinity	May 19		1. 3134		40
Orange, N. J.			1. 40	40	40
Rochester, N. Y.	Apr. 26	1.50	1.171/2	40	40
Seattle, Wash	May 1	1. 371/2	1. 10	40	4
Tacoma, Wash		1. 25	1. 10	40	40
Roofers—	do	1. 4334	1. 25	40	4
Albany, N. Y	do		1. 25	40	4
Troy, N. Y	do			40	4
Sheet-metal workers, Fresno, Calif., and		1			1
vicinity	Apr. 15	1. 25	1. 061/4	40	4
Steamfitters-			1016		
Gloucester, Mass	Apr. 1		1. 05	44	4
Pittsburgh, Pa Tacoma, Wash	May 13 May 1		1.50 1.10	40	4

¹ Not reported.

² 10 per cent reduction.

⁴ Hours per day.

RECENT WAGE CHANGES, BY INDUSTRY, OCCUPATION, AND LOCALITY, APRIL TO JULY, 1932—Continued

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		Rate of	wages	Hours I	er week
Industry or occupation, and locality	Date of change	Before change	After change	Before change	After
Building trades workers—Continued. Stonecutters, Boston, Mass	Apr. 1	Per hour \$1.37½	Per hour \$1.17½	44	41
Allentown, Pa Easton, Pa	May 1	1. 50	1. 121/2	44	4
Chauffeurs and teamsters:			1. 12½	44	4
Boston, Mass., milk-wagon drivers Lombard, Ill.—	do	(4)	(2)	63	6
Ice-wagon drivers— Peddlers————————————————————————————————————	do	Per week 43, 00	Per week	40	
Helpers	do		41.00	48 48	4
Truck drivers (team)	do	41.00	42.00	48	4
Truck drivers (auto)	do	44. 00	45. 00	48	4
Material and coal teamsters— Single-horse drivers	1 40	20.00	25 10		
Double wagons	do	39. 00 41. 00	35. 10 36. 90	54 54	5
Helpers			35. 10	54	5
Barn men		39. 00	35. 10	54	5
Chauffeurs of trucks of—					
Less than 1 ton	do	40. 50	36. 45	54	1.0
3 and under 5 tons	do	41. 00 43. 00	36. 90 38. 70	54 54	5
Up to 3 tons with trailer	do	42.00	37. 80	54	5
3 tons or over with trailer	do	45. 00	40. 50	54	5
Helpers	do		35. 10	54	
Yardmen Paving teamsters—	do	36.00	32. 40	54	- I
Tractor drivers	do	Per day 9, 50	Per day 8. 55	48	
Plow men		9. 50	8, 55	48	4
Blade men	do	9. 50	8, 55	48	4
Truck drivers	do	8.00	7. 20	48	4
Teamsters Hoppers and dump men	do	8.00	7. 20	48	4
Slip holders	do	7. 20 7. 20	6. 48 6. 48	48 48	4
Helpers	do	7. 20	6. 48	48	4
St. Louis, Mo., bakery salesmen-drivers		Per week § 38.00	Per week 6 37. 00	(1)	(1)
Westchester County, N. Y., truck drivers	May 4	Per hour . 82	Per hour . 65	(1)	(1)
Brockton, Mass.— Boot and shoe workers	Apr. 29	Per week 30, 50	Per week 27, 45	48	
Tailors.	Apr. 1	40, 00	35, 00	44	4
Bushelmen	do	36. 00	32. 40	(1)	(1)
Gloversville, N. Y., glove workers	June 1	(7)	(8)	59	5
San Francisco, Calif., hat workers		48. 00	43. 00	48	4
opers, East Liverpool, Ohio	June 17 Apr. 1	44. 00	39, 60	44	(1)
Oredge and tug men, Great Lakes district:	Apr. 1		(-)	40	(.)
Dredge engineers, operators, and cranemen-		Per month	Per month		
Dipper and hydraulic-dredge engineers Cranemen	do	277. 50	242. 50	56	
Assistant engineers	do	225, 00 235, 00	190. 00 200. 50	56 56	
Drades man		200.00	200. 30	90	
Firemen		193. 50	158. 50	56	
Oilers	do	193. 50	158, 50	56	5
Watchmen Deck hands	do	193. 50	158. 50	56	5
		182.00 182.00	147. 00 147. 00	56 56	5
Scow men	do	185. 00	150. 00	56	5
Tug captains and engineers—	34	292.50	257. 50	56	5
Captains	do	272. 50 250. 00 250. 00	237. 50 215. 00 215. 00	56 56 56	5 5 5
Engineers.	do	240.00	205. 00	56	5
Motor boats (100 horsepower)—					
Captains	do	272.50	237. 50	56	5
	30 In	250. 00	215.00	56	5 5
Engineers.	do	240.00	215. 00 205. 00	56 56	1

Not reported.
 10 per cent reduction.
 Various.
 And 5 per cent on sales over \$200 per week.

<sup>And 5 per cent on sales over \$225 per week.
Piecework.
10 to 15 per cent reduction.
15 per cent reduction.</sup>

RECENT WAGE CHANGES, BY INDUSTRY, OCCUPATION, AND LOCALITY, APRIL TO JULY, 1932—Continued

			Rate of	wages	Hours p	er week
Industry or occupation, and locality	Date		Before change	After change	Before change	After change
Dredge and tug men—Continued.			Per month	Per month		
Motor boats (65 to 99 horsepower), captains	If alph.	1	\$227. 50 210. 00	\$192. 50 175. 00	56 56	56 56
Tug firemen and linemen, tug men and deck	}do-		197. 50 192. 50 187. 50	162, 50 157, 50 152, 50	56 56 56	56 56 56
Food workers:	1		101.00	102. 00	30	30
			Per hour	Per hour	13	
Butchers— New Orleans, La	May	4	. 521/2	. 45	40	40
			Per week	Per week		
San Francisco, Calif., and vicinity	May	1	40.00	37. 00	54	54
Furniture workers:			Per hour	Per hour	40	46
Boston, Mass., carpet and linoleum layers Cleveland, Ohio—	1		1. 371/2	1. 17½	40	40
Retail upholsterers	do		1, 161/4	1.00	40-44	40-44
Carpet and linoleum layers	do		1. 20	1. 03	40-44	40-44
Drapery and shade hangers	do_		1, 023/11	. 921/2	40-44	40-44
Measure men	do_		. 96	. 871/9	40-44	40-44
Custom upholstery sewers	do.		. 537/11	. 49	40-44	40-44
Carpet and drapery sewers	do-		. 537/11	. 49	40-44	40-44
Custom upholstery sewers Carpet and drapery sewers Rochester, N. Y., wood carvers San Francisco, Calif.—					54	30
Upholsterers, shade makers, and dra- pery workers	Mon	9	1.00	. 871/2	44	44
Cornet and linelaum layers	May	1	1 1916	1, 00	44	40
San Jose, Calif., upholsterers.	do		1. 00	. 871/2	44	(1)
Glass-bottle blowers, Pittsburgh, Pa	do.		.75	. 60	48	48
Glass-bottle blowers, Pittsburgh, Pa Hotel and restaurant workers, waiters and wait- resses:	1		Per week	Per week		
Boston, Mass	June	1	15. 00	12.00	48	48
New York, N. Y	do_		20, 00	15. 00	48	- 54
Portland, Oreg	do-		16.00	14. 50	48	36
Molders, Anaconda, Mont	Apr.	1	Per day 6. 00	Per day 5. 50	48	(1)
Printing and publishing employees: Compositors, Knoxville, Tenn.—						
Newspaper, day	do_		7. 25	6.55	48	48
Newspaper, night	do_		7.75 Per week	7.00 Per week	48	48
Mailers—			1 36.00	36, 50	44-48	44-45
Des Moines, 10wa	July	1	38, 25	38. 75	44-48	44-48
			41. 25	41, 75	44-48	44-48
New York, N. Y.	May	1	46.00	43, 00	44	44
rimting-press assistants, Unicago, III	MARKY	9	43, 25-49, 00	44. 22-45. 57	44	36-44
Stereotypers, Miami, Fla.: Newspaper, day	Apr.	1	48.00	45, 00	42	42
Newspaper, night	do-	~	51.00	48. 60	42	42
Philadelphia, Pa.—	Turbe	1	(0)	(10)	(1)	(1)
Police, firemen, park and prison guards.	July	1	Per year	Per year	(1)	(1)
Waterloo, Iowa— City officials	Ane	1	1 500-4 200	1, 440-3, 360	(1)	(1)
City officials City-hall employees	de.	A	1 200-1 220	1, 440-3, 360	8	
Police-department employees	do		1, 560-2, 700	1, 500-2, 500	(1)	(1)
Fire-department employees.	do		1, 560-2, 700	1, 500-2, 500	(1)	(1)
a no department employees			-, 000 2, 100	1,000-2,000	(-)	(-)

¹ Not reported.

Farm Wage and Labor Situation, July 1, 1932

THE farm wage and labor situation in different sections of the United States on July 1, 1932, is shown in the following table, compiled from a press release dated July 12, issued by the United States Department of Agriculture.

⁴ Various.

^{10 4} per cent reduction.

Table 1.—FARM WAGE RATES AND FARM LABOR SUPPLY AND DEMAND, JULY 1, 1932, BY GEOGRAPHIC DIVISION

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The state of the s		Wage	rates		Farm la	arm labor supply and mand				
Geographic division	Per n	nonth	Per	day	Supply,	Demand,	Supply,			
	With board	Without board	With board	Without board	of nor- of	of nor- mal	per cent of de- mand			
North Atlantic North Central South Atlantic South Central Far Western	\$26, 42 20, 96 12, 30 12, 65 29, 40	\$43. 24 30. 38 18. 59 18. 54 46. 01	\$1.51 1.05 .62 .61 1.28	\$2. 13 1. 43 . 84 . 80 1. 85	125. 5 128. 0 114. 5 121. 6 132. 7	72. 8 61. 5 64. 7 57. 1 63. 2	172. 208. 176. 212. 209.			
United States	18. 00	27. 10	. 89	1. 23	123. 6	62. 0	199.			

Table 2, compiled from data issued by the Department of Agriculture, shows farm wage rates and index numbers by years from 1928 to 1931 and by quarters from January, 1931, to July, 1932, for the country as a whole.

TABLE 2.—FARM WAGE RATES AND INDEX NUMBERS, BY YEARS, 1928 TO 1931, AND BY QUARTERS, JANUARY, 1931, TO JULY, 1932

			Average fa	rm wage		
Year and month	r and month	Per n	nonth	Per	numbers of farm wages (1910–1914	
		With board	Without board	With board	Without board	= 100)
1928		\$34. 66 34. 74	\$48. 65 49. 08	\$1. 88 1. 88	\$2.43 2.42	16 17
		31, 14	44. 59	1. 65	2. 16	15
		23. 60	35. 03	1. 22	1.65	11
1931-January	*	26. 03	39. 04	1.38	1.87	12
April			38. 37	1. 33	1. 80	12
July		25, 35	37. 00	1. 29	1. 73	12
October 932—January		23. 31	34. 22 30. 53	1. 18 1. 02	1. 59 1. 40	11
April		19. 19	29. 13	. 97	1. 40	9
July		18.00	27. 10	.89	1. 23	8

Salary and Wage Policy in the Depression

THE general lack of knowledge of the extent of salary and wage reductions in industry during the present depression led to a survey¹ recently by the National Industrial Conference Board of the policies now being followed by representative companies. In the beginning of the depression American industrial enterprises very generally underestimated its duration, it is said, and while diminution of output was expected it was not foreseen that such drastic changes would be necessary in conditions of production as to cause general salary and wage reductions. The attempt to maintain wages, moreover, was quite general, being encouraged and urged by officials and others.

Although the wage income was seriously impaired almost from the start, as a result of reduced employment, it was not until comparatively recently that it became apparent that general wage and salary

¹ National Industrial Conference Board (Inc.). Salary and wage policy in the depression. New York, 247 Park Avenue, 1932.

reductions could not be avoided. It is evident, it is said, that in practically all fields of management every means of reducing costs without changing rates of remuneration was tried before the pressure of business conditions forced such a reduction as a condition of continuing business operations. "An enforced reduction of the volume of business," the report says, "usually means an increase of unit costs, including generally the labor cost per unit of product. When increasing unit costs are accompanied by declining prices for the products, a situation arises that threatens business extinction. Only through drastic reductions in cost can a business so situated be saved from

collapse."

The depression of 1930 differed in respect to wage reductions from that of 1920–1922. In both cases the depression followed a period of abnormal business activity in which relatively high money earnings had been the rule in most business enterprises. In the earlier period, however, the decline in business activity led in 1921 to a widespread reduction in wage rates with a less extensive reduction in salaries. Figures compiled by the National Industrial Conference Board covering wages in manufacturing industries show that average hourly earnings in these industries declined 19.3 per cent between the fourth quarter of 1920 and that of 1921 but from the last quarter of 1929 to that of 1930 the decline was only 1.7 per cent. After the present depression had entered the second year, however, with no improvement evident in business conditions, it became necessary for business management to review its salary and wage policy with consequent

readjustment of rates.

The study covered a total of 1,718 concerns, and the replies to the inquiry were received between March 15 and May 1, 1932, so that salary or wage reductions becoming effective after the latter date are not covered. The firms included in the study employed a total of 3,258,666 persons in 1929, whereas in 1932 the total employment in these establishments was 2,391,009, a reduction of 26.6 per cent. The firms covered by the inquiry are representative of major business fields, 63.5 per cent of the persons employed being in manufacturing industries, 19.1 per cent in railroads, about 5 per cent each in other public utilities, extraction and refining, and trade, and the remaining 1.5 per cent in financial institutions. The employees covered represent 16 per cent of those gainfully employed in the six major business fields covered. The fact that the survey covered many large concerns is also significant both because of the large numbers affected by their policies and because of the tendency of smaller concerns to follow the example of the larger units. Among the companies furnishing information, a reduction in executive salaries had been made by 80.5 per cent; 81 per cent had reduced other salaries; and 75.4 per cent had reduced wage rates. These percentages varied considerably, however, among the different business groups. The highest proportion of companies making reductions was found among railroads, followed by manufacturing enterprises. Only 33.3 per cent of the public utility companies furnishing information had reduced salaries and 25 per cent had reduced wages, while in the financial institutions 28.6 per cent had reduced the salaries of executives and 24.5 per cent other salaries.

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An important factor in the tendency to maintain wage and salary rates during the first year of the depression was the theory that high wages are a factor in prosperity since they are expected to create and maintain large-scale purchasing power. Although this assumption is theoretically correct, the caution resulting from uncertainty as to the future always manifests itself at such a time and there is a general tendency to reduce purchases so that even though for a time purchasing power remains unaffected it is withheld as effectively as if it did not exist. The result is that it does soon cease to exist in any such volume as formerly. The only remedy for such a condition, it is stated, is some form of assurance of at least a minimum amount of employment and income for a specified period. Some companies have taken the lead in giving such assurances to their employees, but they are still too few in number to exert an appreciable effect on the national situation.

In the study no attempt was made to measure total loss of earnings during the depression. Among salaried employees the reduction in salary rate does fairly closely represent the loss in earnings although not to the extent that was the case in earlier depressions. Formerly the payment of salaried workers was independent of working time and in general this is still the case, but during the present depression a number of concerns have reduced the working time of salaried employees with a proportionate reduction in weekly remuneration. This reduction in working time has usually been from five and a half to five days per week but in some cases employees have been required to take off a certain number of days per month without pay. Although such a policy is still not general the number of such cases is large enough to be taken into account. With this exception, however, the salary reductions shown in the report do measure the actual loss in earnings of this class of workers. Reductions in the scale of wages among wage earners, on the other hand, do not represent the total loss in earnings as it is probable that only a small proportion of wage earners are now working anywhere near full time. The reductions in wage rates have, therefore, further lessened the earning power already weakened by part-time employment and it is stressed in the report that the percentages of wage-scale reductions shown measure the loss of potential and not actual earning power.

Extent and Severity of Salary and Wage Reductions

The policies of individual industries in regard to reduction in pay vary widely. Thus, executive salaries have been reduced by all the reporting companies in the automobile industry and in the stove and furnace division of the foundry group, while in lumbering and logging and heavy equipment at least 95 per cent have done so. In 17 other industries 90 per cent or more have made reductions. Among banks and insurance companies, in petroleum refining, pharmaceutical chemicals, meat packing, news and magazine publishing, tobacco, and laundries 50 per cent or less had reduced the salaries of executives, the lowest percentage, 4.8, being shown by insurance companies. Practically the same situation is found with regard to other salaries. These salaries had been reduced by all the reporting companies in wire and cable manufacture and in the stove and furnace industry, while the lumbering and heavy equipment groups again showed over

95 per cent of the companies making such reductions. Groups of companies showing 50 per cent or less of the group reporting reductions in other salaries are practically the same as for executives except that glass manufacture is substituted for the tobacco industry. In this group, insurance companies are also lowest, with 4.8 per cent having made salary reductions. Although fewer companies among those reporting have reduced wages than have reduced salaries, a very high proportion have reduced wage rates in a large number of industries. In the hosiery, flour-milling, lumbering, stove and furnace, and textile finishing industries all the companies had reduced the wages while more than 90 per cent of the reporting companies in 11 other industries had done so. In eight industries 50 per cent or less of the companies, 21.4 per cent, being in the pharmaceutical chemical industry.

The percentages of workers affected in plants making reductions was very high, the total averaging 97.5 per cent. In 19 industries all the wage earners were affected and in comparatively few was the proportion lower than 90 per cent. It is considered worthy of note that for all the companies which made no wage reductions the decline in employment between 1929 and 1932 was only 14.7 per cent as compared with an average of 26.6 per cent for all the companies included in the survey, indicating that decline in employment is to a certain extent an index of how much the activity has been curtailed or of how seriously a concern has been affected by the business depression.

The extent and the severity of salary and wage reductions are the two important factors in a period of readjustment such as the present. The average severity of reduction may be computed either as a simple or as a weighted average. In the present study both averages are In the weighted average the percentages by which compensation scales were reduced in each company are multiplied or weighted by the number of persons affected and the sum of these products is divided by the total number of employees in the companies making the The simple average shows the general policy of management in making reductions, as the action of each establishment has equal weight in finding the average for the group. However, a very large company has no greater effect on this simple average than a very small company, although it is of considerably greater importance, industrially and socially, that a company employing 20,000 persons has reduced wages 10 per cent than that one with 50 employees has The weighted average is used, therefore, to show the real extent to which the purchasing power of wage earners and salaried employees has been affected by the reductions in rates of pay. The simple average of reduction in executive salaries was 20.3 per cent but the average, weighted according to the number of persons affected in each company was 14.9 per cent. For other salaries the simple and weighted averages were, respectively, 15.9 per cent and 13.1 per cent, and for wages 13.9 per cent and 11.1 per cent. The fact that the weighted average is lower than the simple average shows, particularly in the case of executive salaries and to a lesser extent in other salaries and wages, that a larger proportion of persons was affected by the lower percentage reductions or, in other words, that the more severe reductions applied to a comparatively small proportion of the total.

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The figures show that, in general, the most severe reductions in pay scales have been made by the smaller firms. This is shown most clearly by the simple and weighted averages for executive salaries. The simple average of severity for all companies, of 20.3 per cent, compared with the weighted average of 14.9 per cent, shows clearly that these salary reductions were less severe in the larger companies. This tendency is still apparent though not quite so clearly marked in the case of other salaries, but it is less clear in the case of wages, mainly, it is said, because wage reductions are usually kept within rather narrow limits. However, it is still evident that the larger percentage reductions were made by the smaller companies. was particularly true in petroleum refining, meat packing, and in the manufacture of miscellaneous food products, automobiles, cutlery and hand tools, and boxes and cartons, while the industries in which the large companies made the most drastic wage reductions were furniture, agricultural implements, structural steel fabrication, rubber tires, and silk manufacturing. It is said that it may be a surprise to many that the smaller companies have made the more severe reductions as the prominence given by newspaper reports to compensation reductions by the larger companies tends to associate wage reductions in the public mind with the larger industrial concerns.

Other Methods of Reducing Compensation

The most important method of reducing compensation is, of course, through straight percentage reductions in the scales of pay. For one reason or another companies have not always been able to put into effect a straight percentage reduction or have not found it desirable to do so. In cases where the base-rate level is set below the prevailing level it is the practice to pay the supplementary remuneration on some profit-sharing basis. When this method of payment is followed the earnings of employees are automatically increased in prosperous periods without changing the basic rates and just as automatically decreased when profits are diminished.

The most usual method of effecting pay-roll economies, however, when a straight percentage reduction of rates is not used, is through consolidation of jobs or demoting employees to lower-paid jobs. Consolidation of jobs or demotion was reported by 125 companies. Among the companies which made special efforts to effect pay-roll economies without changing basic salary rates, working hours have been reduced and payment has been made only for time worked. This has been done either by reducing the work week or by special furloughs. In other instances paid vacations have been suspended. Seventy-two companies reported plans of this general character. The elimination of bonus payments was reported by 32 companies. Incentive systems in which additional payment is made for production above the standard set also offer an opportunity for reducing wage costs, and reduction in wage costs through raising the standards in such systems was reported by 51 companies.

The question of labor policy in connection with pay reduction is also of interest. In the present study information was received from 88 unionized plants, and, while this is not regarded as a wholly satisfactory sample, it is considered suggestive of what has happened in such plants. Among the union plants it was found that the policies

in regard to compensation reductions had not differed materially from those of the open-shop plants. Executive salaries had been reduced in 78.4 per cent of the union plants and in 83.1 per cent of the open-shop plants, while the percentages for other salaries were 78.4 per cent and 84 per cent, respectively, and for wage rates 72.7 per cent and 76.7 per cent, showing that almost as large a proportion of union plants as of open-shop plants had made reductions.

The study shows that there appears to be some correlation between the ratio of wage cost to total cost of production and the extent and severity of wage reduction. Among the industries in which wage cost forms a comparatively high proportion of cost of manufacture it was found that a large proportion of the companies had reduced wage rates and that the reductions on the average were somewhat

higher than for other industries.

In conclusion it is stated that the study seems to show that the attitude of management throughout the depression has seemed to be that of trying to effect the necessary pay-roll economies with the least possible hardship for all concerned and it is said that probably never before has the lowering of rates of pay been accompanied by so little resentment and feeling of injustice. "Whatever the ultimate effects of the reduction in compensation scales," the report concludes, "it must be recognized that this policy has been adopted in most cases because of urgent necessity. American business is passing through one of the most difficult periods it has ever encountered. Survival is the first consideration in any organization, and stockholders, management, and employees have all had to assist in this difficult situation by accepting a lower scale of earnings. This partnership in distress should lead to a broader and more tolerant understanding of one another's points of view and result in better coordination of effort and greater cooperation when business again moves forward."

Forty-Hour Week Established by Standard Oil Co. of New Jersey 1

A NORMAL 40-hour week, consisting of a maximum of five working-days or its equivalent, was established for its entire domestic operations by the Standard Oil Co. of New Jersey, to become effective July 1. This step was taken by the company in order to give the personnel "all practicable assurance of continued employment and to

effect further economies in operation."

The plan, as announced to the employees, provides for a normal working week of five days for all salaried and wage-earning employees of the company in this country. However, each of the subsidiary companies will determine for its various departments whether this reduction in working time shall be taken off currently each week or in one or more periods over the year. Hourly wage earners will continue to be paid on the basis of time actually worked, but salaried employees, including salaried wage earners, on a 5½-day schedule prior to July 1, will go on a 5-day basis with a reduction in pay of one-eleventh. This reduction to a 5-day basis will not affect salaries

¹ The Lamp, New York, June, 1932.

of \$100 or less per month, however, nor will it result in a reduction below \$100 for those receiving more than that amount. The salaries of executives and others of the management will be reduced one-eleventh even though their responsibilities make an actual 5-day week impossible.

All reductions in compensation will be deducted from current pay

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rolls even though the time off is taken in one or more periods.

If, after the scheduled reduction of hours, there is a surplus of employees in any department or plant, a further reduction will be made in the time schedule with a corresponding reduction in pay in order to keep the force and available work in balance. It is provided, however, that no employee's working time shall be reduced

to less than 50 per cent of full time.

The president of the company, in making the announcement of the shorter week to the employees, stated that he was confident that the employees generally understood that the company could not carry on as though business were not undergoing a serious downward revision and that the part-time and part-pay schedule would be preferred to a horizontal salary reduction. He stated, also, that the program will result in giving work to a substantial number now unemployed and thus will be a real contribution by the company and the present employees toward the solution of this most serious

problem.

In connection with the announcement of the shorter working week. attention is called in an editorial in The Lamp to the fact that the past 40 years have seen the transition from the 12-hour to the 8-hour day in manufacturing enterprises—a change in working time which enabled industry to meet the otherwise lowered employment opportunities resulting from the development of labor-saving machines and increased productive capacity. The present unemployment situation. it is said, inevitably leads to the question whether the remedy does not lie in a further general reduction in hours of work. "Such a program would permit of absorbing the unemployed of all classes back into their regular occupations as accountants, sales people, clerks, etc., whereas the alternative suggestion of vast public construction jobs would make places almost exclusively for manual labor and engineers. The same amount of work would be done and the change would only result in a more general division of the pay roll. Yet the effect should be to start taking the unemployed off the list of dependents and thus make them self-supporting." Even with a lessened number of working hours the assurance of continued employment, together with the reduction in the cost of living, would allow budgets to be adjusted to the new conditions and would release frozen purchasing power.

The only objection to the shorter work which can not be satisfactorily answered, it is said, is the uncertainty as to its general acceptance by all employers within competitive groups, since individual employers can not operate indefinitely on shorter hours if competitors insist upon retaining the former schedule of working time with its

lower unit labor cost.

Six-Hour Shifts of India Tire & Rubber Co.

AN ACCOUNT of the facts and circumstances incidental to the adoption of the 6-hour shift system by the India Tire & Rubber Co. was furnished to the Bureau of Labor Statistics by Mr. J. E.

Lorentz, general superintendent of the company.

Although the establishment of the 6-hour shift system in this plant is a development of conditions of manufacturing peculiar to certain operations in the industry, it has proved so satisfactory from the standpoints of improved production, reduced labor costs, and reduction in absenteeism that it has been gradually extended to other

departments of the plant.

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The plan was first applied in the curing or vulcanizing department of the plant—commonly called the "pit"—in the summer of 1931. In this department the work is hot and humid and considerable skill is required. Tire demand is naturally highest in the hot season and full 7-day (24 hours) mold operation is commonly necessary in this department. The attempt to keep the men at work for 8 hours per day 7 days in the week had not proved satisfactory over a period of several years from the standpoint of production and of operating costs. The experiment of introducing one more shift of curing men was therefore tried, with the following results: (1) One-third more workmen were given employment; (2) loss of production was reduced so that at no time did it exceed 5 per cent, with many days showing a perfect score; (3) absences which had been an appreciable factor on the 8-hour basis declined almost to the vanishing point; (4) the labor cost per unit cured declined 8.2 per cent.

The reduction in labor cost was computed by comparing two months in which conditions were identical with the exception that in one month the work was on a 3-shift basis, and in the other on a 4-shift basis.

After watching this installation for a few months, covering both the busy and slack seasons, it was decided to begin extension of the 4-shift system to other departments of the plant. At the present time most of the workmen are on the 6-hour basis, but it has not yet been applied to salaried employees, although it is said that eventually it will be extended to include everyone.

The direct savings as a result of the extension of the plan are less easy to compute than those of the vulcanizing department because of general rate reductions that have taken place in the past 12 months throughout the industry, but it is considered that the savings are at least equal to those secured in the first instance. No upward adjust-

ment of rates was made when the 6-hour shift was installed.

In conclusion Mr. Lorentz states, "We have not attempted to outline the sociological advantages incident to shortened working periods and the employment of men who otherwise would have no work. All of these have been pointed out in other articles. Our experience bears out all of these advantages and the plan, in general, seems entirely sound and workable."

Normal and Actual Hours of Work in Illinois Manufacturing Establishments, 1930 to 1932

THE following table is drawn from the Illinois Labor Bulletin of May, 1932, and reflects conditions as of April, each year, 1930 to 1932. The 1932 figures for normal hours of males are based on reports from 834 establishments employing 98,865 males, and those for females on reports from 456 establishments employing 24,947 females. The 1932 figures for actual hours of males are based on returns from 793 establishments employing 91,609 males, and those for females from 427 establishments employing 23,720 females. The publication does not state the number of establishments or employees covered in 1930 or 1931.

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The story told by this table is very significant. To illustrate, in April, 1930, 36.6 per cent of the male workers had a normal day of 8 hours or under, and 41.1 per cent were actually working 8 hours or under. By April, 1931, an increased percentage of the establishments (40.3) had come to a normal day of 8 hours or under, but work was so curtailed that 56.6 per cent of the male workers were working 8 hours per day or under.

In April, 1932, there was a slight falling off in the percentage of workers having a normal day of 8 hours or under, but in actual fact, 57.7 per cent of the male workers were working 8 hours or less.

The story of hours per week is even more interesting. In April, 1930, 61.9 per cent of the male employees were actually working 48 hours or less per week. Actual working hours were so curtailed by April, 1931, that 74.1 per cent of all male employees were actually working 48 hours or under, and by April, 1932, 85.3 per cent of all the Illinois male factory workers who were working actually worked 48 hours or less per week.

PERCENTAGE DISTRIBUTION OF EMPLOYEES IN MANUFACTURING ESTABLISHMENTS OF ILLINOIS, BY SEX AND BY NORMAL AND ACTUAL HOURS OF WORK, APRIL, 1930 TO 1932

Min of the Markets Bill	N	Iales (cumul	ative p	er cent	t)	Fe	males	(cumu	lative	per ce	nt)
Working hours	April	, 1930	April	, 1931	April	, 1932	April	, 1930	April	, 1931	April, 193	
Na year Marrian let	Nor- mal hours	Ae- tual hours	Nor- mal hours	Ac- tual hours	Nor- mal hours	Ac- tual hours	Nor- mal hours	Ac- tual hours	Nor- mal hours	Ac- tual hours	Nor- mal hours	Ac- tual hour
Per day: Under 8 hours 8 hours and under. Under 9 hours 9 hours and under. Under 10 hours 10 hours and under. Under 12 hours	0. 8 36. 6 56. 6 84. 0 88. 3 97. 9 99. 5	5. 5 41. 1 62. 1 86. 2 89. 9 97. 6 99. 2	2.8 40.3 49.7 78.2 85.5 97.2 99.4	12. 4 56. 6 66. 7 88. 0 92. 2 97. 8 98. 8	1. 2 39. 3 60. 7 81. 8 89. 2 98. 4 99. 2	19. 6 57. 7 77. 6 90. 0 94. 8 97. 9 99. 2	0. 2 28. 2 69. 2 90. 8 93. 1 100. 0	8. 1 28. 7 76. 0 92. 0 94. 0 100. 0	4. 9 48. 9 65. 6 89. 2 94. 0 100. 0	22. 6 56. 3 74. 6 92. 1 96. 2 100. 0	2. 4 35. 8 73. 0 90. 1 94. 3 100. 0	26. 51. 82. 93. 98. 100.
Per week: Under 32 hours 32 hours and under Under 40 hours 40 hours and under Under 44 hours 44 hours and under Under 48 hours 48 hours and under Under 50 hours 50 hours and under Under 56 hours Under 60 hours	2. 9 12. 0 16. 7 52. 0 57. 5 73. 5 91. 1 96. 1	2.6 5.0 10.3 16.5 19.8 26.6 34.4 61.9 68.0 77.9 91.2 96.6	0. 7 .8 12. 9 19. 2 44. 3 50. 8 66. 7 90. 4 94. 7	14. 6 22. 2 30. 5 36. 5 40. 6 49. 0 62. 2 74. 1 77. 6 83. 0 93. 6 97. 3	0. 2 3. 2 6. 3 17. 3 25. 0 54. 1 60. 2 73. 3 93. 7 97. 2	29. 9 35. 0 48. 6 56. 7 63. 1 67. 1 76. 8 85. 3 88. 4 90. 7 96. 4 98. 8	2. 0 18. 5 28. 6 66. 8 73. 2 86. 0 99. 2 99. 3	2. 1 2. 4 12. 0 17. 6 20. 8 29. 3 34. 4 74. 9 83. 3 91. 6 99. 8 99. 8	0. 5 1. 0 25. 9 47. 5 65. 1 71. 7 85. 8 99. 2 99. 2	17. 2 22. 8 32. 3 40. 2 47. 3 56. 7 70. 2 78. 3 81. 0 87. 5 99. 7 99. 8	0. 0 1. 6 3. 9 21. 1 41. 0 71. 8 77. 4 89. 5 99. 4 99. 4	36.0 39.1 53. 61. 66. 73. 85. 89. 92. 96. 99.

Reduction in Wages of Coal Miners in Nova Scotia

N March 14, 1932, the Nova Scotia miners voted against accepting the wage reduction of 10 per cent for day workers and 12½ per cent for those paid by the ton or yard, etc., recommended by the Royal Commission on Coal Mining in Nova Scotia (1932) for the employees in the Dominion Steel & Coal Corporation's mines.1 According to the Canadian Labor Gazette of June, 1932, this wage cut became effective March 15 of this year. A special district convention at New Glasgow, on April 18, authorized the miners' executive to take up with the corporation the matter of a wage increase and, failing to secure this increase, take a strike vote. In the early part of May a conference was held between the miners' representatives and officials of the corporation, when the latter stated that the wage cut would continue in effect. On May 26 a ballot of the miners was taken, and the majority voted to accept the reduction. In June the district officers met the corporation's officials to sign the new agreement on the basis of the royal commission's recommendations.

Wages and Working Conditions in Cigarette Factories in India

THE product of the bidi² industry in India is described in the volumes of evidence presented to the British Royal Commission on Labor in India,³ from which the information given in this article is taken, as "a type of indigenous cigarettes from Indian tobacco rolled up in tendu leaves." The bidis are made by hand in factories, but it seems to be the custom for the workers to prepare at home the

leaves in which the tobacco is wrapped.

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The size of the industry in India as a whole is not shown in the source of information mentioned, but apparently it is extensive, at least in some parts of the country. In the Central Provinces in 1930 it was furnishing employment to over 42,000 persons, and in the city of Madras, Presidency of Madras, the number employed in bidi making was estimated by an investigating committee in 1929 as about 35,000, composed roughly of 20,000 men, 1,000 women, and ren. The industry has grown rapidly in the Central The census of 1921 enumerated 164 establishments 14,000 children. Provinces. employing 7,680 persons. In 1930 the number of establishments had reached 866 and the number of workers, 42,240. Of the 866 establishments, 185 employed more than 50 persons each. The 42,240 employees were made up of 18,257 males, 10,073 females, and 13,910 children.

Children as young as 5 years of age were found to be employed. In Madras, boys between the ages of 5 and 15 years constituted over 50 per cent of the working force in some factories. In the Central Provinces the employment of children, especially of those under 12 years of age, is said to have decreased, owing to the introduction of compulsory primary education in some of the bidi-making centers.

For résumé of this report see Labor Review, Washington, May, 1932, pp. 1059-1061.
 Also spelled "beedy."
 Great Britain. Royal Commission on Labor in India. Evidence. Vol. VII, pt. 1; Vol. XI, pt. 1. London, 1931.

In 1927, 15,568 children (of whom half were below 12 years of age) were employed in 776 establishments, as compared with the 13,910 children (about 43 per cent of whom were 12 years of age or under)

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employed in 866 establishments in 1930. In the Central Provinces, wages are paid on a piece-rate basis per 1,000 bidis manufactured, the rate depending upon the "finish." 1930 the rates ranged from 5 to 10 annas (11.5 to 23.0 cents),4 the most prevalent rate being 7 annas (16.1 cents). Earnings per day vary greatly, depending, of course, upon the skill of the individual. Skilled workers sometimes make as many as 2,000 bidis a day, but the average number made is said to be less than 1,000. The average earnings in 1930 were from 8 to 10 annas (18.4 to 23.0 cents) for adults and from 4 to 5 annas (9.2 to 11.5 cents) for children. Deductions of up to 10 per cent or more of the fixed rates are invariably made for bad work, and no payment is made for bidis not passed by the head office of the employing firm. The report states that "the practice lends itself to abuses and cases have been reported in which a whole day's output is so rejected." Table 1 shows the range in earnings in a number of localities in the Central Provinces.

TABLE 1.—AVERAGE EARNINGS OF BIDI WORKERS IN THE CENTRAL PROVINCES OF INDIA

[Conversions into United States currency on basis of rupee (16 annas) = 36.5
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Reference Management of Text A		Daily earnings of—									
Locality	Men	Women	Children	Packers	Staff						
adressin a minimum of the	Cents	Cents	Cents								
Nagpur	18. 4-23. 0	13. 8-16. 1	6.9-9.2		1 \$5. 48-\$9. 13						
Kamptee	23. 0-36. 8	18.4-27.6	6.9-9.2		1 5, 48-12, 7						
Gondia	13.8-23.0	9. 2-18. 4	6.9-11.5								
Tumsar	13.8-20.7	11.5-18.4	9. 2-13. 8								
Bhandara	18. 4	11.5	6. 9								
Katni	13. 8-18. 4	11.5-13.8	6.9-9.2	1 \$4, 38-\$7, 30							
Sihora	18. 4-27. 6	9. 2-11. 5	26.9-9.2	. 18							
Kota (Bilaspur)	13. 8	9.2	16.9								
Jabalpur	18.4-23.0		29.2	14. 38- 5. 48							

¹ Per month.

Boys.

In Madras adults are always paid at piece rates. In 1929 the rate paid was 12 annas (27.6 cents) per 1,000 bidis. Boys are paid on a weekly basis in most cases, the amount received depending upon age and capability. Table 2 shows the rates said to be typical of those paid boys of average ability (working 12 to 15 hours a day).

TABLE 2.—WEEKLY WAGES PAID TO BOYS MANUFACTURING BIDIS IN MADRAS, INDIA, 1929

[Conversions into United States currency on basis of anna-2.3 cents]

		proximate kly wage	need and special set	Approximate weekly wage		
Age	Indian cur- rency	United States cur- rency	Age	Indian cur- rency	United States cur- rency	
5 years 6 years 7 years 8 years 9 years 10 years 10	Annas 2 3 3 4 4 8	\$0.046 .069 .069 .092 .092 .184	11 years 12 years 13 years 14 years 15 years	Annas 12 16 16 32 48	\$0. 27 . 36 . 36 . 73 1. 10	

⁴ Conversions into United States currency on basis of anna=2.3 cents.

Wages and Hours in the Clothing Industry in the Union of South Africa

In 1925 the Union of South Africa passed an act, amended in 1930, establishing a wage board for the Union, consisting of three members, to which the governor might add for any industry two members, representing, respectively, the employers and the employees. Upon this board's recommendation, after investigation, the governor might make an award setting hours, wages, and other conditions for the industry. An award, dated April 22, 1932, relating to the clothing manufacturing industry, has been received from the United States consul at Johannesburg.

The districts in which the award is to be operative are first specified, and terms are defined. A "qualified employee" is one who has been employed in the industry for not less than five years, if a male, and for not less than three, if a female. A learner is one who has had less than the required period of employment, according to sex. All employment is counted, even though it may have been served under a number of different employers. For the different classes of employees the

minimum weekly wage is as follows:

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Males:	£	8.	d.1
Qualified employee	3	0	0 (\$11.25)
Learners:			
First year of employment	0	17	6 (\$3.28)
Second year	1	5	0 (\$4.69)
Third year	1	12	6 (\$6.09)
Fourth year	2	2	6 (\$7.97)
Fifth year		10	0 (\$9.38)
Females:			
Qualified employee	2	0	0 (\$7.50)
Learners:			OCAL STATE
First 3 months	0	15	0 (\$2.81)
Next 9 months	0	17	6 (\$3.28)
Second year		5	0 (\$4.69)
Third year		12	6 (\$6.09)

Pieceworkers are to receive not less than they would have been entitled to under this award had they been working at a weekly rate. Wages are to be paid in cash weekly, or on termination of service, if this takes place before the ordinary pay day of the establishment. No fines or deductions from an employee's wages may be made except in carefully specified contingencies. Hours are not to exceed 48 a week, with time and a quarter for overtime and for Sunday and holiday work. For short time the following provision is made:

Where short time is being worked in an establishment an employee, whether on time or piecework, who on any day attends at the establishment on the instructions of the employer or his representative, shall be entitled to be employed for at least four hours on such day or to receive a minimum of one-twelfth of his weekly wage in lieu thereof. If an employee is not required to attend on any day he must be informed prior to such day that his services will not be required, otherwise if he does attend he shall be deemed to be attending on the instructions of the employer.

The proportion of learners to journeymen is thus prescribed:

One male qualified employee shall be employed by an employer before a male learner may be employed by him, and the number of male learners employed by him shall not exceed twice the number of male qualified employees employed by him.

¹ Conversions on basis of exchange rate of pound for April, 1932=\$3.75.

One female qualified employee shall be employed by an employer before a female learner may be employed by him, and the number of female learners employed by him shall not exceed three times the number of female qualified employees employed by him.

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It is specified, however, that in determining the ratio of learners a learner who is paid the wage of a qualified employee may be counted as a qualified employee.

General Survey of Wages in Bulgaria in 1931 1

ABOR conditions in industrial and commercial enterprises in Bulgaria are regulated by law. Home work is not controlled by law unless the work is dangerous or injurious.

Hours of Labor

The working-day for workers of both sexes over 18 years of age is fixed at eight hours. No overtime work is permitted under the law. Voluntary agreements between employers and workers for overtime work with extra pay are not acceptable to the authorities charged with the enforcement of the law. Approval of such agreements was recently sought by certain textile manufacturers, but was refused by the labor section of the Ministry of Commerce, Industry, and Labor. Overtime work without compensation does, however, obtain in many establishments, the workers accepting the situation without complaint to the authorities for fear of being dismissed and remaining unemployed, especially in view of the economic crisis which has resulted in decreased production and increased unemployment.

The law further provides for from one to three rest periods in the day's work, the total resting time to be not less than two hours, of which one hour is for the midday meal. An uninterrupted rest of 36 hours at the week end is obtigatory.

In dangerous and injurious work (specification of which is under the Supreme Council of Labor at the Ministry of Commerce, Industry, and Labor) and in night work, the working time is fixed at six hours per day. The use of female labor at night is forbidden.

Children under 14 years of age may not be employed, and "juniors" under 16 years may work only six hours per day and may not be employed for dangerous or injurious work.

Payments Supplementary to Wages

No additions to wages, in the form of family allowances, payments in kind, paid holidays, free housing, or the use of land and gardens, are known. In a few cases where the workers are housed and boarded, payment is made therefor at low rates by deductions from wages. In the State-owned coal mines, coal is distributed to the workers at reduced prices.

Deductions from Wages

ALL workers and employees in private enterprises (and also those in State enterprises when not affected by the law on State pensions) are subject to social insurance. Deductions therefor from wages

¹ This article was prepared from a report by Maynard B. Barnes, American consulat Sofia, dated Apr. 4, 1932.

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consist of 5 leva (3.6 cents)² annually for an insurance booklet and weekly contributions by special stamps to be affixed to the booklet. The stamps are of two classes: (1) General stamps, for "illness, maternity, invalidity, and old age"; and (2) special stamps, for (a) "illness and maternity," and (b) for "invalidity and old age" (the last not yet being in use). The weekly contributions are as follows:

TABLE 1.—RATES OF WEEKLY CONTRIBUTIONS TO SOCIAL INSURANCE IN BULGARIA, THROUGH GENERAL AND SPECIAL STAMPS

[Conversions into United States currency on basis of lev=0.72 cent]

	Rate-gene	eral stamps	Rate—special stamp			
Daily wage	Bulgarian currency	United States currency	Bulgarian currency	United States currency		
Up to 15 leva (10.8 cents)	Leva	Cents 4.3	Leva	Cents		
16 to 30 leva (11.5 to 21.6 cents)	8	5.8	4	2. 9		
31 to 45 leva (22.3 to 32.4 cents)	10	5.8 7.2	5	3. 6		
46 to 60 leva (33.1 to 43.2 cents)	12	8.6	6	4. 3		
Over 60 leva (43.2 cents)	16	11.5	8	5.8		

Only one-half of the weekly contribution is deducted from the workers' wages, the remaining half being paid by the employers; the State adds, as its contribution, one-half of the amounts thus collected.

All workers and employees are subject to an occupational tax, at the rate of 4 per cent of the annual salary received. There is also a general income tax, but the bulk of the workers are exempt from this tax, as the tax is on all income over 100,000 leva (\$720) per year, and few workers have an annual salary over that amount. Taxes are not deducted from the wages, except in a few cases, where tax collectors make arrangements with employers to do so.

Wages in Bulgarian Industries

Wage rates in 1931 on the whole decreased considerably as compared with 1930, owing to the prevailing economic crisis. There was a general decrease of about 20 per cent and in certain cases the decrease was as much as 40 per cent. All wage rates shown in the following tables represent gross wages.

In Table 2 are presented daily wages in the construction industry

in April and November of 1930 and 1931, by occupation.

Table 2.—DAILY WAGES IN THE CONSTRUCTION INDUSTRY IN BULGARIA, 1930 AND 1931, BY OCCUPATION

[Conversions into United States currency on basis of lev = 0.72 cent]

	April	l, 1930	Novem	ber, 1930	April	, 1931	Novem	ber, 1931
Occupation	Bulga- rian cur- rency	United States cur- rency	Bulgarian currency	United States cur- rency	Bulga- rian cur- rency	United States cur- rency	Bulga- rian cur- rency	United States cur- rency
Wall builders Woodworkers Stoneworkers Concrete makers General workers	Leva 130 130 150 70 65	Cents 93. 6 93. 6 108. 0 50. 4 46. 8	Leva 130-140 130 160 130 80-90	Cents 93. 6-100. 8 93. 6 115. 2 93. 6 57. 6- 64. 8	Leva 100 100 140 100 60	Cents 72. 0 72. 0 100. 8 72. 0 43. 2	Leva 120 120 140 80 60	Cents 86. 4 86. 4 100 8 57. 6 43. 2

² Conversions into United States currency on basis of lev=0.72 cent.

Table 3 shows the hourly wage rates in the metal, tanning, and tobacco industries, in 1930, by occupation and sex.

TABLE 3.—HOURLY WAGE RATES IN THE METAL, TANNING, AND TOBACCO INDUS.
TRIES IN BULGARIA, 1930, BY OCCUPATION AND SEX

[Conversions into United States currency on basis of lev=0.72 cent]

	TALLE .	Wa	ige rate j	per hour		
Industry, occupation, and sex	Ave	erage	Max	imum	Mini	imum
	Bulga- rian cur- rency	United States cur- rency	Bulga- rian cur- rency	United States cur- rency	Bulga- rian cur- rency	United States cur- rency
Metal industry			-			
Company of the Compan	Leva	Cents	Leva	Cents	Leva	Cents
Founders (fondeurs), male	10. 41	7.6	25, 00	18.0	5. 62	4.
Turners (tourneurs), male	11. 51	8.3	30, 00	21.6	5. 62	4.
File workers (serruriers), male	9. 33	6.7	35, 00	25. 2	5. 62	4.
Smiths (forgerons), male	11. 15	8.0	22. 50	16. 2	6.00	4.
Woodworkers (menuisiers), male	12. 47	9.0	30.00	21.6	5. 62	4.
Dyers (teinturiers), male Tinkers (ferblantiers), male		6.3	25. 00 30, 00	18. 0 21. 6	5. 62	4.
Boilermakers (chaudronniers), male	8, 71	6.3	32, 50	23. 4	3, 25 3, 75	2.
General workers, male	7. 75	5.6	16, 87	12. 1	1. 87	2. 1.
Tanning industry	1.10	0.0	10. 04	12. 1	1.04	1.
Tanning industry						
Tanners, male	9. 44	6.8	35. 00	25. 2	2.50	1.
Other workers (including machinists and firemen),	0.70	7.0	97 00	05: 0	0.50	
male	9. 76	7.0	35. 00	25. 2	2. 50	1.
Tobacco industry	silot	onia di		2		
Cigarette factories:	1000	incomi.		Hi wall		
General workers, male	10. 44	7.5	45, 00	32.4	3, 50	2. 1.
General workers, female	5. 76	4.1	12.50	9.0	2.38	1.
Leaf tobacco preparation:	All to the			a Into		
Skilled workers in preparation and fermentation,	40 40		** **			
male	19. 59	14.1	57. 50	41.4	6. 25	4.
Stiff makers (Istifchis), male	9. 42	6.8	20.00	14.4	2. 50	1.
Bundle makers (Denkens), male	10, 08 8, 39	7. 3 6. 0	15. 00 11. 88	10. 8 8. 6	3. 25 4. 38	2. 3.
Handlers (Aktarmajis), male	9. 31	6.7	17. 50	12.6	4, 38	3.
Handlers (Aktarmajis), male		5.4	11. 25	8. 1	3, 75	3.
Screeners, female	7. 23	5. 2	10, 63	7.7	2. 50	1.
General workers, male	6. 09	4.4	12. 50	9.0	2, 50	1.
General workers, female	5. 36	3.9	10, 63	7.7	1, 50	1.

Table 4 gives an idea of the daily wages of workers in the principal industries of Bulgaria in 1930, the table showing the number of workers in the groups receiving each classified amount of wages. As can be seen, wage rates in 1930 were comparatively low. Over 65 per cent of the total workers shown in the table were employed at a daily wage of from 31 to 80 leva (22.3 to 57.6 cents). Only 7,226 workers received a wage of over 100 leva (72 cents) per day.

TABLE 4.-CLASSIFIED DAILY WAGES IN SPECIFIED INDUSTRIES IN BULGARIA IN 1930

[Conversions into United States currency on basis of lev=0.72 cent]

		- 1	Number	of worke	rs with c	lassified	ded daily wages							
Industry	Un- paid (ap- pren- tices)	Up to 15 leva (10.8 cents)	16-30 leva (11.5- 21.6 cents)	31-45 leva (22.3- 32.4 cents)	46-60 leva (33.1- 43.2 cents)	61-80 leva (43.9- 57.6 cents)	81-100 leva (58.3- 72.0 cents)	Over 100 leva (72.0 cents)	Total					
Coal mining Metal mining Quarries Salt works			2 31 18	158 265 40	701 410 481 21	3, 930 215 315 131	1, 226 251 317 266	1, 881 160 108 175	7, 898 1, 332 1, 279 593					
Textile	2	320 1	3, 106 18	3, 733 151	2, 252 216	1, 583 473	465 219	445 127	11, 906 1, 205					
Woodworking		196 172	320 435	417 568	429 1, 149	609 820	1, 243 410	601 353	3, 898 4, 092 7, 466					
Ceramic Chemical		319 29	1, 403 207	2, 333 627	1, 617 622	1, 071 407	464 372	259 191	2, 453					
Food and drink	9	84 44	339 996	513 2,776	138 2, 586	70 2, 318	18 1, 805	31 1, 131	1, 193 11, 663					
TobaccoClothingConstruction	4	195	6, 189 149 28	8, 980 257 326	9, 751 293 525	6, 130 141 523	2, 616 120 415	673 132 244	34, 534 1, 107 2, 061					
Power stations	1	33	3 163	31 229	269 209	561 184	344 187	382 332	1, 590 1, 339					
Art, luxury, and other articles. Scrap and waste			2	10	6	1	2 2	1	2					
Total	284	1, 404	13, 409	21, 414	21, 675	19, 483	10, 742	7. 226	95, 63					

General Survey of Wages in Turkey, 1931 1

ABOR in Turkey is not organized on western lines, and though State regulation of the conditions of labor has recently been established, it is not rigidly enforced. With the exception of large industrial plants in which labor conditions have been considerably improved during the last decade, wage rates in general are left for agreement between the workers and their employers. Social insurance, minimum wage scales, and sanitary requirements do not exist.

Hours of Labor

The hours of labor vary in the different industries. In automobile assembling the working hours are 8 per day and 40 per week; in tin factories and coal mining 8 per day and 48 per week; in petroleum distribution, 8½ on 5 days and 5½ on 1 day, or 48 per week; in the leather and tanning industry, 8½ per day and 51 per week; in the textile, carpet, and woodworking and furniture industries, 9 per day and 54 per week; in logging and lumbering, 10 hours per day and 60 hours per week in summer, and 8 per day and 48 per week in winter; in the fruit-packing industry, 11 per day and 66 per week; and in flour milling, 11 per day and 68 per week. In mining, 10 hours constitute a day's labor in summer and from sunrise to sunset in winter, and in agriculture the daily hours are from sunrise to sunset in winter and from sunrise to one hour following sunset in summer.

¹ This article was prepared from reports by Dominic Cariciopulo, of the American consulate at Istanbul (Sept. 28, 1931) and George W. Renchard, vice consulat Izmir (Oct. 28, 1931).

Payment for Overtime and Holidays

In most industries no provision is made for overtime. In tin factories, flour milling, and the leather and tanning industry, however, overtime is paid for at the regular rate, and in the textile and woodworking and furniture industries the worker is paid at the rate of a full day's pay for 6 hours of overtime and half a day's pay for 3 hours of overtime. Since 1924 a law has provided for a compulsory rest time of 24 hours a week. This law is strictly observed. In general no provision is made for payment for holidays, it being rather the exception not to find workers working until noon on holidays, with the exception of Friday, the Moslem Sabbath.

Supplementary Payments and Deductions

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In coal mining a production bonus is paid when the worker's daily output exceeds 500 kilograms,² the bonus being based on the percentage of increase over that amount. In most other industries no additions to wages are made, but free medical assistance is given by the automobile assembling and textile industries and by some logging and lumbering companies. In tin factories certain classes of permanent workers receive free housing, light, and water, and in coal mining permanent workers are given free housing, bathing facilities, and medical assistance.

Workers are subject to a Government tax amounting to 7 per cent of their wages. The employers are responsible to the Government for the amount which is deducted from the wage.

Wages

RATES of wages paid in the Istanbul and Izmir districts in the latter part of 1931 are presented in the table following. The Izmir district (Izmir is not only the chief city of the district but also the second city of Turkey in population and trade) depends for its prosperity on agricultural products. The marketing of these products has been extremely unsatisfactory the last three seasons, resulting in an impairment of the purchasing power of the people. This low purchasing power of the people has produced a low standard of living, and Izmir as a consequence is a relatively cheap labor market despite the comparative sparsity of the population of the region. The one industry employing a large number of workers the year round is carpet weaving. Tobacco companies and dried-fruit packing establishments employ seasonal labor for periods ranging from two to six months.

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³ Kilogram=2,2046 pounds.

WAGES AND HOURS OF LABOR

DAILY WAGES IN TURKISH INDUSTRIES, 1931

[Conversions into United States currency on basis of £T (paper pound)=48 cents]

	Daily	wages		Daily	wages
Industry	Turkish	United States currency	Industry	Turkish	United States currency
Istanbul district	£T		Istanbul district—Con.		
Automobile assembling	1.80-1.60 1.80-1.00 1.5065	1 \$0. 58-\$0. 77 1 . 38 48 1 . 24 31	Logging and lumbering: Foremen	£T 3,00-4,00	\$1, 44-\$1, 92
Tin:		THEFT COLL	Workers	. 80- 1.00	. 38 48
Foremen Skilled workers	2.75- 3.50 1.75- 2.50	1. 32- 1. 68 . 84- 1. 20	Izmir district	4 1 1 1 1	100
Solderers	2. 25- 3. 00	1, 08- 1, 44	Tobacco:	The ball	
Tinsmiths	1. 60- 3, 00	. 77- 1. 44	Female workers		
Pipe fittersCarpenters and ma-	2.00- 3, 25	.96- 1.56	(preparation) Male workers (bal-	. 50- 1. 00	. 24 48
sons	2.50- 3.75	1. 20- 1. 80	ing)	1, 50	. 72
Painters	2. 20- 3. 00	1.06- 1.44	Stevedores	1, 50- 2, 50	.72- 1.20
Boilermakers	1.50-3.50	.72- 1.68	Fruit packing:		
Coppersmiths	3. 50 2 95. 00	1. 68 2 45, 60	Foremen	6, 00-10, 00	2. 88- 4. 80
Textile:			male	3 3. 50- 4. 50	³ 1. 68- 2. 16
Skilled foremen	3.00- 4.50	1. 44- 2. 16	Skilled workers, fe-	00 1 10	00 70
Other foremen Weavers	3, 00- 4, 00	1.44- 1.92	male Ordinary labor	. 80- 1. 10 3 1. 10- 2. 00	.3853 3 .5396
Other workers	1.50	.72	Other workers, fe-	1, 10- 2.00	* . 55 90
Apprentices	. 70- 1. 20	.3458	male	. 60- 1, 00	. 29 48
Carpet: Female work-		.01 .00	Carpets:	1.00 2.00	. 20 . 10
ers	1.00- 2.50	. 48- 1. 20	Skilled workers 4	3.20	3.10
Woodworking and fur-			Agriculture:		
niture:			Skilled labor, male		
Skilled foremen	8,00	3.84	(pruning vines,	1 00 0 00	00 00
Other foremen	4. 00- 6. 00 1. 50- 3, 50	1.92- 2.88 .72- 1.68	etc.)	1, 30- 2, 00	. 62 96
Workers	1. 30- 3. 30	. 12- 1,08	Common labor,	. 80- 1, 20	.3858
Foremen	2 90, 00	1 43, 20	Tobacco poppy	. 30- 1. 20	.0000
Workers	2 40, 00-60, 00	3 19, 20-28, 80	Tobacco, poppy, and cotton pick-	Different Printers	
Leather and tanning:	ALC: THE	700 00	ers, female	.6080	. 29 38
Foremen	4.00- 5.00	1. 92- 2. 40	Licorice:	Berran Samuel	
Workers	2.00- 3.00	. 96- 1. 44	Diggers, skilled	2. 40 5, 20	1. 15
Coal mining:	0 00 0 00	00 4 44	Common laborers	3.20	3.10
Foremen Workers	2.00- 3.00 1.20- 1.60	.96- 1.44 .5877	Weighers	. 80- 1. 20	. 38 58
Other mining:	1. 20- 1. 00	.0811	Petroleum distribution:	of her Tones	
Foremen.	1.50	.72	Machine operators.	1, 25- 2, 75	. 60- 1, 32
Workers	.80	.38	Filling-room work-	2.20	1.02
Ore sorters, female	.4050	.1924	ers	6 2.00- 2.75	6 . 96- 1. 32
Agriculture:		1 (2 () ()	Warehouse workers_	1. 35- 2. 25	. 65- 1. 08
Permanent workers.	220.00-35.00	2 9, 60-16, 80	Engine-room work-	White Table	
Day laborers (often	40	***	ers and mechanics	2. 25- 6. 00	1. 08- 2. 88
women)	. 40- 1. 00	.1948	corde la		

List money inchesiod in the bureau's mentily tribid of employment sames, barreller with the per cents of change in June, 1932, as not pared with May, 1932, and June, 1931, are given like table follow.

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¹ Hourly wages, varying according to efficiency or length of service.

Monthly wages.
Earnings at piecework.
Mostly young girls.

Fillers, cappers, stackers, truckers, examiners, etc.

TREND OF EMPLOYMENT

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Summary for June, 1932

EMPLOYMENT decreased 3.0 per cent in June, 1932, as compared with May, 1932, and earnings decreased 6.4 per cent. The industrial groups surveyed, the number of establishments reporting in each group, the number of employees covered, and the earnings for one week, for both May and June, 1932, together with the per cents of change in June are shown in the following summary:

SUMMARY OF EMPLOYMENT AND EARNINGS, MAY AND JUNE, 1932

Industrial group	Estab- lish- ments	E	nployment	t	Earnings in 1 week			
		May, 1932	June, 1932	Per cent of change	May, 1932	June, 1932	Per cent o change	
1. Manufacturing 2. Coal mining Anthracite	18, 492 1, 302 160	246, 177 91, 499	2, 585, 108 222, 047 72, 455	-9.8 -20.8	\$50, 042, 799 4, 307, 157 2, 304, 699	3, 270, 095 1, 488, 103	1-7. -24. -35.	
Bituminous 3. Metalliferous mining 4. Quarrying and nonmetallic	1, 142	154, 678	149, 592	-3. 3	2, 002, 458	1, 781, 992	-11.	
	247	23, 357	19, 630	-16. 0	454, 285	382, 299	-15.	
5. Crude petroleum producing	634	24, 051	23, 556	-2.1	410, 737	381, 858	-7.	
	278	21, 667	21, 527	-0.6	707, 642	673, 286	-4.	
6. Public utilities Telephone and telegraph Power and light Electric railroad and motor bus	11, 974	640, 525	635, 296	-0.8	18, 825, 698	18, 333, 537	-2.	
	8, 011	285, 190	282, 548	-0.9	7, 886, 569	7, 813, 231	-0.	
	3, 470	223, 493	221, 553	-0.9	7, 023, 964	6, 716, 209	-4.	
operation and maintenance 7. Trade	503	131, 842	131, 195	-0.5	3, 915, 165	3, 804, 097	-2.	
	16, 069	415, 084	407, 777	-1.8	9, 367, 443	8, 967, 561	-4.	
Retail	2, 756	71, 832	71, 071	-1.1	2, 071, 451	1, 967, 916	-5.	
	13, 313	343, 252	336, 706	-1.9	7, 295, 992	6, 999, 645	-4.	
	2, 428	139, 360	135, 574	-2.7	2, 030, 934	2 1, 934, 143	-4.	
9. Canning and preserving	857	29, 995	41, 070	+36, 9	465, 234	523, 653	+12.	
10. Laundries	985	60, 843	60, 563	-0, 5	1, 030, 700	1, 002, 119	-2.	
11. Dyeing and cleaning	392	12, 220	12, 308	+0.7	249, 762	244, 280	$ \begin{array}{c c} -2. \\ -2. \end{array} $	
12. Building construction	10, 349	83, 050	81, 581	-1.8	2, 076, 555	2, 028, 236		
Total	64, 007	4, 379, 222	4, 246, 037	-3.0	89, 968, 946	84, 206, 424	-6,	

¹ Weighted per cent of change for the combined 89 manufacturing industries, repeated from Table 1, manufacturing industries; the remaining per cents of change, including total, are unweighted.

² The amount of pay roll given represents cash payments only; the additional value of board, room, and tips can not be computed.

Data are not yet available concerning railroad employment for June, 1932. Reports of the Interstate Commerce Commission for Class I railroads show that the number of employees (exclusive of executives and officials) decreased from 1,072,524 on April 15, 1932, to 1,067,732 on May 15, 1932, or 0.4 per cent; the amount of pay roll decreased from \$126,468,966 in April to \$124,727,062 in May, or 1.4 per cent.

Per capita weekly earnings in June, 1932, for each of the 16 industrial groups included in the bureau's monthly trend of employment survey, together with the per cents of change in June, 1932, as compared with May, 1932, and June, 1931, are given in the table follow-

ing. These per capita weekly earnings must not be confused with full-time weekly rates of wages, as they are computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

PER CAPITA WEEKLY EARNINGS IN JUNE, 1932, IN 16 INDUSTRIAL GROUPS AND COMPARISON WITH MAY, 1932, AND JUNE, 1931

Industrial group	Per capita weekly earn-	Per cent of change June, 1932, compared with—			
the vit beginning our delay	ings in June, 1932	May, 1932	June, 1931		
1. Manufacturing 2. Coal mining:	\$17.97	-4.1	-21.4		
Anthracite	20, 54	-18.5	-19.4		
Rituminous	11. 91	-8.0	-32.5		
Metalliferous mining	19. 48	+0.2	-18.8		
Quarrying and nonmetallic mining	16, 21	-5.1	-27.1		
5. Crude petroleum producing	31. 28	-4.2	14.3		
Telephone and telegraph.	27.65		-5.9		
Power and light	30. 31	-3.6	-4.3		
Electric railroads	29. 00	-2.4	-9.0		
7. Trade:					
Wholesale	27.69	-4.0	-11.0		
Retail	20.79	-2.2	-12.6		
8. Hotels (cash payments only)1	14. 27	-2.1	-12.2		
9. Canning and preserving	12.75	-17.8	-12.0		
10. Laundries	16. 55	-2.3	-11.5		
11. Dyeing and cleaning	19. 85	-2.9	-14.1		
12. Building construction	24. 86	-0.6	(2)		
Total	⁸ 19. 73	3-3.6	1−16.5		

¹The additional value of board, room, and tips can not be computed.

Data not available.
Does not include building construction.

Employment in Selected Manufacturing Industries in June, 1932

Comparison of Employment and Earnings in June, 1932, with May, 1932, and June, 1931

EMPLOYMENT in manufacturing industries decreased 3.7 per cent in June, 1932, as compared with May, 1932, and earnings decreased 7.5 per cent over the month interval. Comparing June, 1932, with June, 1931, decreases of 21.7 per cent in employment and 38.4 per cent in earnings are shown over the year interval.

The per cents of change in employment and earnings in June, 1932, as compared with May, 1932, are based on returns made by 18,492 establishments in 89 of the principal manufacturing industries in the United States, having in June, 2,585,108 employees whose earnings in

one week were \$46,465,357.

The index of employment in June, 1932, was 57.7 as compared with 59.7 in May, 1932, 62.2 in April, 1932, and 73.4 in June, 1931. The pay-roll index in June, 1932, was 39.3, as compared with 42.5 in May, 1932, 44.7 in April, 1932, and 63.8 in June, 1931. The 12-month average for 1926 equals 100.

In Table 1, which follows, are shown the number of identical establishments reporting in both May and June, 1932, in the 89 manufacturing industries, together with the total number of employees on the pay rolls of these establishments during the pay

period ending nearest June 15, and the amount of their weekly earnings in June, the per cents of change over the month and the year intervals, and the index numbers of employment and earnings in

June, 1932.

The monthly per cents of change for each of the 89 separate industries are computed by direct comparison of the total number of employees and of the amount of weekly earnings reported in identical establishments for the two months considered. The per cents of change over the month interval in the several groups and in the total of the 89 manufacturing industries are computed from the index numbers of these groups, which are obtained by weighting the index numbers of the several industries in the groups by the number of employees or wages paid in the industries. The per cents of change over the year interval in the separate industries, in the groups, and in the totals are computed from the index numbers of employment and earnings.

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN MANUFACTURING ESTABLISHMENTS IN MAY AND JUNE, 1932, AND JUNE, 1931

	Estab- lish- ments report-		1						
Industry lis me repeing bo Mi an	ing in	Number		cent of	Amount of pay roll (1 week), June, 1932	Per cent of change		bers, June, 1932 (average, 1926=100)	
	both May and June, 1932	on pay roll, June, 1932	May to June, 1932	June, 1931, to June, 1932		May to June, 1932	June, 1931, to June, 1932	Em- ploy- ment	Pay- roll totals
Food and kindred products		234, 711	+0.5	-8.4	85, 236, 047	-1.4	-19.7	80, 9	69, 5
Slaughtering and meat		00 055	-0.7		1 000 000	2.0	1	00.0	HD /
packing Confectionery	337	82, 955 28, 065	-0.7	-4.4 -15.7	1, 828, 006 415, 863	-3.2 -2.6	-19.1 -29.4	86. 2 65. 2	73. 6 51. 2
Ice cream	396	14, 791	+10.5	-6.2	409, 918	+5.5	-18.8	84.7	70. 9
Flour		16, 043	-2.1	-2.9	346, 661	-6.0	-16.2	82.8	68.3
Baking	947	63, 724	-0.5	-10.3	1, 473, 755	-1.3	-20.4	82. 4	71.4
Sugar refining, cane	. 16	7, 935	-1.7	-7.4	206, 204	-2.9	-18.3	74. 7	66.
Beet sugar	48	3, 102	+18.6	+14.7	78, 959	+2.7	-8.0	39. 7	35.
Beverages	360	11, 737	+5.4	-11.8	330, 682	+7.4	-15.9	82. 1	74.8
Butter	314	6, 359	+2.7	-6.8	145, 999	-1.2	16. 2	103. 4	89. (
Textiles and their products	3, 112	495, 773	-6.5	-24.8	5, 958, 578	-10.0	-46, 5	58, 6	35, 2
Cotton goods	. 683	172, 504	-9.7	-25.5	1, 670, 044	-14.0	-48.3	57.4	35. 2
Hosiery and knit goods	468	95, 386	-1.4	-8.8	1, 173, 451	-2.1	-32.2	74. 7	49.1
Silk goods	258	30, 522	-10.6	-38.9	370, 123	-12.8	-57.1	41. 2	24.9
Woolen and worsted goods.		38, 763	-2.8	-39. 2	564, 307	-5.7	-56. 2	49. 2	32. 6 26. 2
Carpets and rugs	. 32	10, 452	-5.4	-32.6	145, 837	-12.8	-58.4	52.0	20. 4
tiles		31, 252	-4.5	-16.9	545, 547	+0.1	-35.0	71.5	49.
Clothing, men's	373	48, 505	-6.5	-23.7	553, 713	-14.1	-53.4	55. 9	25. 9
Shirts and collars	112	13, 407	-0.9	-24.3	137, 537	+1.8	-41.0	55. 0	34.
Clothing, women's		24, 032	-9.4	-23.7	367, 976	-17.8	-41.3	64. 8	36.6
Millinery	136	7, 141	-11.0	-23.1	108, 038	-15.4	-37.8	55, 7	35. 2
Corsets and allied garments.	30	5, 512	-2.4	-5.0	75, 353	-10.6	-26.9	99. 0	71.6
Cotton small wares	112	8, 603	-4.8	-24.2	120, 668	-8.4	-43.6	71.6	47.5
Hats, fur-felt	. 39	4, 534	-1.0	-27.6	67, 199	+12.7	-47.2	56. 4	27.7
Men's furnishings	74	5, 160	-0.2	-23.5	58, 785	+2.6	-43.1	56. 8	35.7
ron and steel and their products, not including	in nes	E LEAN	33 110	103		73370	30	77	
products, not including		***			4 400 904	44.0		74 0	26, 5
machinery		309, 131 184, 856	-8.3 -4.8	-22.5 -22.3	4, 423, 781 2, 380, 377	-11.8 -17.8	-50.4 -56.9	54, 9 54, 9	23. 3
Iron and steel	40	5, 976	-7.1	-47.1	81, 319	-11,8	-64.0	31. 3	17.
Structural and ornamental	30	0,010		-31.1	91, 919	-11,0	-01.0	01.0	21
ironwork	191	16, 626	-3.3	-33.0	290, 125	-10.9	-53.8	47.7	27.1
Hardware	iii	22, 572	-1.7	-21.4	313, 908	-4.0	-44.9	52. 4	26.
Steam fittings and steam	CHILD	31,35,0129	813	1891	010, 000	INV.	(339)		
and hot-water heating	115 14	100 0000	1. 180	W Bro	-	LOW!		1.1.9	
apparatus	109	15, 729	-0.4	-38.3	285, 431	+0.5		33.7	20.
Stoves	161	14, 394	-7.2	-26.0	234, 124	-10.8	-45.4	46.3	25. 1
Bolts, nuts, washers, and rivets	65	54 124		-22.2	129, 299		100	64.1	35.7

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN MANUFACTURING ESTABLISHMENTS IN MAY AND JUNE, 1932, AND JUNE, 1931—Continued

Industry	Estab-	En	ploym	ent	Ea	Index num-			
	lish- ments report- ing in both May and June, 1932	Number		ent of	Amount of pay roll (1 week), June, 1932	Per cent of change		bers, June, 1932 (average, 1926=100)	
		on pay roll, June, 1932	May to June, 1932	June, 1931, to June, 1932		May to June, 1932	June, 1931, to June, 1932	Em- ploy- ment	Pay- roll totals
Iron and steel and their products, not including machinery—Continued. Cutlery (not including silver and plated cutlery) and edge tools	336	9, 703	-6.7	-7.1	\$177, 156	-12.8	-22.9	68, 9	46.4
Forgings, iron and steel Plumbers' supplies Tin cans and other tinware. Tools (not including edge tools, machine tools, files,	63 66 57	5, 581 4, 716 7, 922	-3. 2 -0. 7 +6. 7	-7.0 -16.3 -11.8	90, 340 74, 780 158, 142	-3.7 -0.2 +6.8	-34. 3 -38. 0 -19. 6	58. 2 63. 6 76. 7	31. 6 37. 3 46. 8
or saws)	137	7, 218	-5.1	-23.7	115, 028	-6.6	-39. 5	65. 3	37.
Wirework Lumber and allied products. Lumber, sawmills. Lumber, millwork. Furniture. Turpentine and rosin	72 1,630 652 469 487 22	5, 339 119, 845 60, 071 19, 245 39, 463 1, 066	$ \begin{array}{r} -0.8 \\ -1.8 \\ +(1) \\ -4.1 \\ -4.6 \\ +0.2 \end{array} $	-2.8 -30.6 -32.8 -28.8 -25.0	93, 752 1, 533, 859 714, 445 290, 884 514, 354 14, 176	-7.5 -5.4 -3.6 -7.0 -7.9 -7.8	-26. 0 -52. 6 -53. 9 -52. 9 -51. 7 -34. 9	93. 7 37. 8 35. 8 36. 5 43. 0 44. 0	65. 20. 19. 22. 22. 36.
Leather and its manufac- tures	499	120, 522	-3.1	-11.5	1, 779, 130	-1.6	-32,7	69. 7	43.4
Boots and shoes Paper and printing	164 335 1, 938 419	22, 596 97, 926 215, 572 77, 638	-5.8 -2.4 -2.1 -2.3	-18.0 -10.0 -11.4 -9.5	415, 038 1, 364, 092 5, 511, 065 1, 402, 414	-6.0 -0.3 -5.4 -9.0	-36.3 -31.6 -24.4 -29.9	63. 4 71. 3 79. 9	46. 42. 4 67.
Paper and pulp Paper boxes Printing, book and job Printing, newspapers and	313 755	20, 113 51, 391	+0.1	-14. 6 -15. 3	365, 963 1, 407, 735	-1.3 -6.1	-20. 9 -27. 6 -28. 2	73. 3 69. 1 75. 1	49. 9 57. 8 62. 8
periodicals	451	66, 430	-1.8	-8.0	2, 334, 953	-3.9	-18.1	97. 7	88. 4
Chemicals Fertilizers Petroleum refining	1,017 125 206 114	125, 196 20, 377 4, 536 44, 784		-17.5 -12.1 -27.0 -14.2	3, 032, 358 496, 176 64, 889 1, 298, 275	-7.8 -6.1 -38.9 -0.7	-27. 5 -25. 4 -43. 2 -20. 9	69, 3 83, 6 32, 5 64a7	60. 4 61. 6 25. 1 59. 4
Cottonseed oil, cake, and meal. Druggists' preparations. Explosives. Paints and varnishes.	48 37 21 359	1, 259 5, 898 2, 728	-31. 6 -3. 8 -5. 0	-16. 2 -9. 3 -24. 7	17, 328 121, 822 51, 288 368, 596	-23.1 -3.8 -16.2 -4.1	-15.7 -18.3 -42.3 -27.5	23. 8 70. 5 71. 3 72. 3	26. 4 70. 6 45. 3
Rayon	21 86	15, 479 17, 729	-28.1 + 1.6	-15.5 -39.5 -4.4	302, 699 311, 285	-29. 2 +5. 9	-50.3 -14.2	93. 4 95. 7	61. 8 78. 3 90. 8
Soap	1, 367	12, 406 86, 356		-36, 4		-		43, 5	27. (
Cement Brick, tile, and terra cotta Pottery	123 703 121 192	13, 690 20, 512 14, 019 33, 727	+0.1	-35. 4 -43. 7 -25. 4 -24. 0	263, 300 255, 177 199, 218 648, 476	-5. 0 -12. 0 -18. 0 -6. 3	-56. 0 -63. 6 -46. 0 -36. 8	41. 5 29. 8 58. 1 57. 8	26. 6 13. 8 31. 6 43. 9
Glass Marble, granite, slate, and other stone products	228	4, 408	-13.9	-54.1	94, 030	-21.4	-68.3	42.1	27. 2
Nonferrous metals and their products	638	77,444		-22, 5	1, 299, 726	-6,3	-43, 0	53, 7	34, 4
Stamped and enameled ware	91	13, 158	-3.8	-14.9	218, 874	-7.4	-34.5	61.8	40. 6
Brass, bronze, and copper products. Aluminum manufactures. Clocks, time recording de-	202 28	27, 315 4, 819	-3.7 -3.9	-23.3 -39.2	448, 365 65, 475	-6.7 -11.0	-45. 5 -62. 5	51. 9 46. 7	30. 7 23. 9
vices, and clock move- ments. Gas and electric fixtures,	24	4, 679	-4.9	-26.0	62, 011	-2.4	-46.6	42. 5	26. 1
lamps, lanterns, and reflectors Plated ware Smelting and refining	59 54	5, 060 7, 287	-0.2 -2.1	-23.9 -20.1	109, 220 130, 012	+1.2 -7.0	-36. 4 -36. 2	68. 5 60. 6	50. 7 36. 8
Smelting and refining— copper, lead, and zinc Jewelry Tobacco manufactures	27 153 259	7, 842 7, 284 57, 63 8	-2.1 -3.4 +2.6		135, 389 130, 380 756, 99 6	-6.7 -5.4 +7.8	-43.7	60. 5 35. 8 71. 1	40. 1 22. 9 55. 1
Chewing and smoking tobacco and snuff. Cigars and cigarettes	37 222	10, 318 46, 720	+2.6	+9.3	142, 187 614, 811	+2.4	-4.9	89. 4 68. 7	73. 8 53. 8

¹ Less than one-tenth of 1 per cent,

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN MANUFACTURING ESTABLISHMENTS IN MAY AND JUNE, 1932, AND JUNE, 1931—Continued

TABI

Food

Industry	Establishments reporting in both May and June, 1932		ploym	ent	Es	Index numbers, June, 1932 (average, 1926=100)			
		1 10 7000	Per cent of change		Altroid Latroid Latourn Co 383			Per cent of change	
			May to June, 1932	June, 1931, to June, 1932	Amount of pay roll (1 week), June, 1932	May to June, 1932	June, 1931, to June, 1932	Employ- ment	Pay- roll totals
Transportation equipment. Automobiles	422 242 35	267, 057 221, 188 6, 646	-1.0 -0.1 -5.6	-18, 5 -17, 9 -38, 1	\$5, 911, 327 4, 822, 908 208, 763	-11. 2 -12. 1 -2. 0	-25, 4 -24, 2 -40, 6	59.0 61.0 196.6	44, 0 45, 1 202,
Cars, electric and steam railroad Locomotives Shipbuilding Rubber products Rubber and inner	34 14 97 152	4, 457 3, 006 31, 760 74, 499	-7.3 -11.0 -3.6 +1.3	-30. 9 -39. 2 -14. 4 -11. 2	77, 100 68, 552 734, 004 1, 621, 799	-12.7 -15.6 -4.9 +10.1	-37. 6 -48. 7 -26. 3 -25. 0	19. 0 18. 0 83. 9 67. 6	11. 14. 66. 51.
Rubber boots and shoes Rubber goods, other than	39 10	45, 381 10, 650	+1.8 +0.4	-10. 2 -15. 7	1, 135, 380 159, 372	+17.7 -9.0	-23.5 -26.4	65. 8 55. 8	53. 35.
boots, shoes, tires, and inner tubes Machinery, not including transportation equip-	103	18, 468	+1.1	-10.9	327, 047	+0.3	-28.2	80. 5	53.
Agricultural implements Electrical machinery, ap-	1, 837 73	310, 318 4, 445	-5.6 -22.6	-30, 2 -49, 7	5, 776, 920 73, 406	-9.7 -27.8	-47.6 -48.7	50.1 22.1	30. 16.
paratus, and supplies Engines, turbines, tractors,	303	127, 851	-5.5	-27.7	2, 549, 982	-8.1	-44.0	59. 6	40.
and water wheels Cash registers, adding machines, and calculat-	80	15, 048	-3.4	-32.5	296, 476	-6.2	-49.5	45.0	27.
ing machines Foundry and machine-shop	45	14, 918	-4.2	-12.2	321, 460	-8.5	-34.2	71.1	47.
products	1,090 153	105, 564 11, 639	-5.5 -2.8	-30. 8 -47. 2	1, 788, 820 209, 991	-10.3 -7.6	-49.5 -59.9	46. 9 34. 5	26. 20.
parts	33 18 42	5, 606 9, 017 16, 230	-7.1 -13.9 +4.8	-30. 2 -28. 6 -22. 2	81, 963 124, 694 330, 128	-18.7 -17.2 +0.8	-57.3 -51.5 -33.9	52. 0 58. 9 63. 9	27. 31. 54.
Railroad repair shops Electric railroad Steam railroad	911 392 519	91, 646 20, 912 70, 734	-6.0 -0.8 -6.6	-22.7 -12.5 -23.7	2, 163, 568 573, 954 1, 589, 614	-11.3 -2.7 -12.6	-37.3 -20.7 -39.1	48.3 69.4 46.7	38, 60. 36.
Total-89 industries	18, 492	2, 585, 108	-3,7	-21,7	46, 465, 357	-7.5	-38,4	57.5	39,

Per Capita Earnings in Manufacturing Industries

ACTUAL per capita weekly earnings in June, 1932, for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics, together with the per cents of change in June, 1931, as compared with May, 1932, and June, 1931, are shown in Table 2.

These earnings must not be confused with full-time weekly rates

These earnings must not be confused with full-time weekly rates of wages. They are actual per capita weekly earnings, computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers).

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TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JUNE, 1932, AND COMPARISON WITH MAY, 1932, AND JUNE, 1931

Industry	Per capita weekly earn-	Per cent of cha with	
Industry	ings in June, 1932	May, 1932	June, 1931
ood and kindred products:			
Slaughtering and meat packing	\$22.04	-2.5	-15.
Confectionery	14. 82	-2.3	-16.
Ice cream	27. 71	-4.6	-13. -13.
Flour Baking	21. 61 23. 13	-4.0 -0.7	-13. -11.
Sugar refining, cane		-1.2	-11
Beet sugar	25, 45	-13. 4	-19
Reverages.	28. 17	+1.9	-4
Butter	22. 96	-3.8	-9
Cotton goods	9. 68	-4.8	-30
Hosiery and knit goods	12. 30	-0.8	-25
Silk goods	12. 13	-2.5	-29
Woolen and worsted goods	14. 56 13. 95	-2.9 -7.9	-28 -38
Carpets and rugs Dyeing and finishing textiles	17, 46	+4.9	-3c -21
Clothing, men's	11. 42	-8.1	-38
Shirts and collars.		+2.8	-21
Clothing, women's	15. 31	-9.4	-23
Millinery	15. 13	-4.8	-19
Corsets and allied garments	13. 67	-8.4	-23
Cotton small wares		-3.7	-25
Hats, fur-felt	14, 82	+13.8	-27
Men's furnishings	11. 39	+2.7	-25
on and steel and their products, not including ma-			
Iron and steel	12, 88	-13.7	-44
Cast-iron pipe	13. 61	-5, 0	-31
Cast-iron pipeStructural and ornamental ironwork	17. 45	-7.8	-31
Hardware	13. 91	-2.4	-29
Steam fittings and steam and hot-water heating		100	
apparatus	18. 15	+0.9	-16
Stoves	16. 27	-4.0	-26
Bolts, nuts, washers, and rivets Cutlery (not including silver and plated cutlery)	15. 21	-4.2	-31
Cutlery (not including silver and plated cutlery)	18, 26		10
and edge tools Forgings, iron and steel	16, 19	-6.6 -0.5	-16 -29
Plumbers' supplies		±0.5	-26
Tin cans and other tinware	19, 96	+0.4 +0.1	-8
Tools (not including edge tools, machine tools, files,	Al sevenberg	ALL STREET	ter and tree
or saws)	15. 94	-1.5	-20
Wirework	17. 56	-6.7	-23
mber and allied products: Lumber, sawmills	44.00	Man Man March	Hi mara
Lumber, sawmills	11.89	-3.6	-33
Lumber, millwork	15. 11 13. 03	-3. 0 -3. 5	-29 -39
Turpentine and rosin.		-8. 0	-32 -12
11	10. 00	-0.0	-12
Leather and its manufactures:	18, 37	-0.3	-22
Boots and shoes	13. 93		-24
per and printing:		and the state of t	
Paper and pulp	18.06	-6.9	-22
Paper boxes	18. 20	-1.4	-18
Printing, book and job	27. 39	-3.2	-15
Printing, newspapers and periodicalsemicals and allied products:	35. 15	-2.2	-11
Chemicals	24. 35	-3.2	-14
Fertilizers.	14. 31	+9.7	-10
Potroloum refining	99 99	-0.6	
Cottonseed oil, cake, and meal	13. 76	+12.3	+(
Druggists' preparations	20. 65	(1)	-10
Cottonseed oil, cake, and meal Druggists' preparations Explosives Paints and varnishes	18. 80	-11.7	-2
Paints and varnishes	23. 81	-3.1	-1
Rayon.	17. 07	-1.6	-19
Soap	25. 09	+4.2	-10
ne, clay, and glass products: Cement	19, 23	-5.1	3
Brick, tile, and terra cotta-	12. 44	-6.7	-3
Pottery.	14. 21	-10.0	-2
Glass	19, 23	-4.6	-13
Marble, granite, slate, and other stone products	21, 33	-8.8	-3
nferrous metals and their products:	14 10 0 0 0		Want Th 1975
Stamped and enameled ware	16. 63	-3.8	-2
Brass, bronze, and copper products	16, 41	-3.1	-2
Aluminum manufactures	13. 59	-7.4	-38
Clocks, time-recording devices, and clock movements. Gas and electric fixtures, lamps, lanterns, and	13. 25	+2.6	-2
ties and electric fivinges lamne lanterns and	the same to same the 'or	+1.5	-10

¹ No change.

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TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JUNE, 1932, AND COMPARISON WITH MAY, 1932, AND JUNE, 1931—Continued

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Industry	Per capita weekly earn-	Per cent of cha with	nge compared
	ings in June, 1932	May, 1932	June, 1931
Nonferrous metals and their products—Continued.			
Plated ware	\$17.84	-5.0	-20.
Smelting and refining—copper, lead, and zinc	17. 26	-4.8	
Jewelry	17, 90	-2.1	-34.
Tobacco manufactures:	11.00	-2,1	-21.
Chewing and smoking tobacco and snuff	13.78	-0.1	
Cigars and cigarettes.	13, 16	+6.0	-12.
Pransportation equipment:	10. 10	70.0	-12.
Automobiles	21. 80	-12.0	
Aircraft			-7.
Cars, electric and steam railroad	31. 41	+3.8	-3.
Cars, electric and steam ramoad	17. 30	-5.9	-9.
Locomotives	22. 81	-5.2	-15.
Shipbuilding	23. 11	-1.4	-14
Rubber products:			
Rubber tires and inner tubes	25. 02	+15.7	-15.
Rubber boots and shoes.	14. 96	-9.4	-13.
Rubber goods, other than boots, shoes, tires, and			-10.
inner tubes	17, 71	-0.7	-19.
Machinery, not including transportation equipment:	*****	0.1	-19.
Agricultural implements	16, 51	-6.8	1.1
Electrical machinery, apparatus, and supplies.	19. 94	-2.7	+1.
Engines, turbines, tractors, and water wheels	19. 70	-2.9	-22.
Cash registers, adding machines, and calculating	19. 70	-2.9	-7.
	01 77		
machines	21. 55	-4.5	-25.
Foundry and machine-shop products	16. 95	-5.0	-26.
Machine tools	18.04	-5.0	-24.
Textile machinery and parts		-12.5	— 38.
Typewriters and supplies	13. 83	-3.8	-32
Radio	20, 34	-3.8	-15.
Railroad repair shops:			40,
Electric-railroad repair shops	27, 45	-1.9	-9.
Steam-railroad repair shops	22, 47	-6.5	-20.

General Index Numbers of Employment and Earnings in Manufacturing Industries

General index numbers of employment and earnings in manufacturing industries by months, from January, 1926, to June, 1932, together with average indexes for each of the years from 1926 to 1931, and for the 6-month period, January to June, 1932, inclusive, are shown in the following table. In computing these general indexes, the index numbers of each of the separate industries are weighted according to their relative importance in the total. Following this table are two charts prepared from these general indexes showing the course of employment and earnings for each of the years 1926 to 1931, inclusive, and for the months from January to June, 1932.

TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND EARNINGS IN MANUFACTUR-ING INDUSTRIES, JANUARY, 1926, TO JUNE, 1932

			Emp	ploym	ent				1::11	Es	rning			
Month	1926	1927	1928	1929	1930	1931	1932	1926	1927	1928		1930	1931	193
JanuaryFebruary	101.5		93.0	97. 4	90. 9	75. 3	64. 8 65. 6	102. 2	100.6		101.8	88. 1 91. 3	68. 1	49.
March April May	101. 0 99. 8	99. 5 98. 6 97. 6	93. 3	99. 1 99. 2	89. 9 88. 6	75. 7 75. 2	59.7	101. 5 99. 8	100. 8 99. 8	93. 8 94. 1	104. 8	90. 7 88. 6	68. 5 67. 7	44. 42.
June	99. 3 97. 7 98. 7 100. 3	95. 0 95. 1	92. 2 93. 6	98. 2 98. 6	82. 7 81. 0	71. 7 71. 2		95. 2 98. 7	97. 4 93. 0 95. 0	91. 2 94. 2	98. 2 102. 1	77. 0 75. 0	60. 3 59. 7	
September October November	100. 7 99. 5	95. 3 93. 5	95. 9 95. 4	98. 4 95. 0	77.9	68. 9 67. 1		99. 3 102. 9 99. 6	94. 1 95. 2 91. 6	99.0 96.1	102. 4 95. 4	74. 0 69. 6	55. 3 52. 5	
Average	98. 9			-	76. 6	-	1 62, 4	99. 8	ESCHARA STATE	97.7	100, 5	68, 8		-

¹ Average for 6 months.

Time Worked in Manufacturing Industries in June, 1932

Reports as to working time in June were received from 13,319 establishments in 89 manufacturing industries. Four per cent of these establishments were idle, 42 per cent operated on a full-time basis,

and 54 per cent worked on a part-time schedule.

An average of 83 per cent of full-time operation in June was shown by reports received from all the operating establishments included in this tabulation. The establishments working part time in June averaged 71 per cent of full-time operation.

Table 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JUNE, 1932

		shments rting	Per cen tablishm which e ees wor	ents in mploy-	of full t	per cent time re- d by—
Industry	Total number	Per cent idle	Full time	Part time	All op- erating estab- lish- ments	Estab- lish- ments operat- ing par time
Food and kindred products	2, 375	(1)	74	26	94	7
Slaughtering and meat packing	176		77	23	97	8
Confectionery	255	1	34	65	81	7
Ice cream	321		67	33	95	8
Flour	391	1	70	29	92	1
Baking	649		85	15	97	3
Sugar refining, cane	12		17 92	83 8	82 99	1
Beet sugar Beverages	37 313	(1)	86	14	97	
Butter	221	(,)	87	13	98	
extiles and their products	2, 353	10	42	47	85	
Cotton goods	601	10	30	60	.78	
Hoslery and knit goods	374	4	52	44	88	
Silk goods	228	21	36	43	84	
Woolen and worsted goods	214	14	44	43	86	
Carpets and rugs	26	12	12	77	72	
Dyeing and finishing textiles	130	1	33	66	82	
Clothing, men's	236	11	51	38	91	
Shirts and collars	67	13	52	34	92	
Clothing, women's	191	20	60 48	19 42	95 88	
Millinery Corsets and allied garments	93 21	10	48	52	88	
Cotton small wares	95	2	41	57	83	
Hats, fur-felt	24	8	25	67	68	
Men's furnishings	53	2	53	45	88	
on and steel and their products, not including						
machinery	973	4	17	78	70	
machinery Iron and steel	143	8	13	78	62	
Cast-iron pipe	36	17	3	81	53	
Structural and ornamental ironwork	131	3	14	83	74	0-5
Hardware	53		15	85	70	000
Steam fittings and steam and hot-water	90	3	6	91	60	
heating apparatusStoves	109	5	8	87	65	
Bolts, nuts, washers, and rivets	49		12	88	70	
Cutlery (not including silver and plated	-		-			
cutlery) and edge tools	92	3	34	63	76	
Forgings, iron and steel	32		25	75	69	
Plumbers' supplies	46	4	22	74	74	
Tin cans and other tinware	46		46	54	88	
Tools (not including edge tools, machine	-		-	-		
tools, files, or saw)	97	3	26	71	71	
Wirework	1 044	6	16	78 71	80	
Imber and allied products Lumber, sawmills	1,044	6 5 7	24 21	70	75 73	
Lumber, millwork	272	i	20	72 79	75	
Furniture	318	6	29	65	76	
Turpentine and rosin.	18	6	78	17	96	
eather and its manufactures	377	3	29	68	79	
Leather	121	1	29 37	62 71	86	
Boots and shoes.		4	25	71	75	

¹ Less than one-half of 1 per cent.

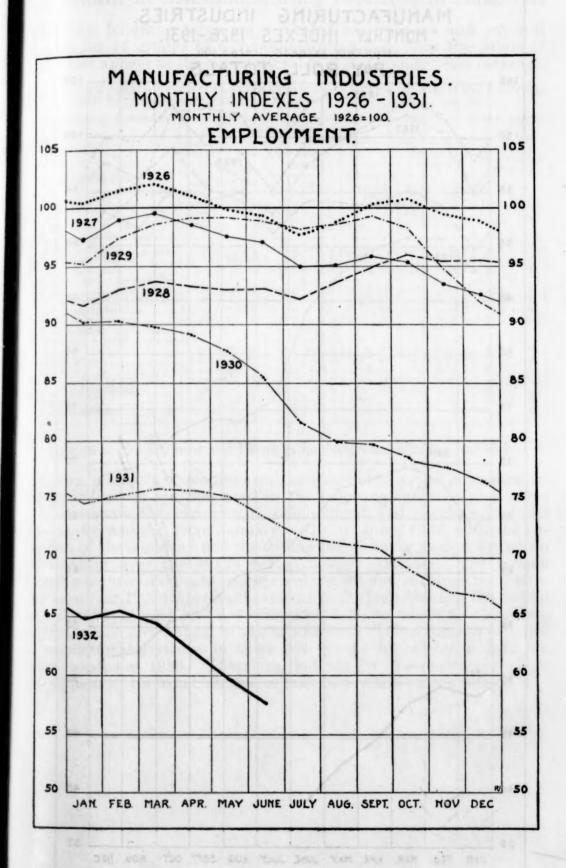
TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JUNE, 1932—Continued

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satisfies. Finite pair cetts of linear it operated on a full-time basis, on selectific.		shments	Per cen tablishm which er ees wor	nents in mploy-	Average of full to ported	time re-
Industry		11.11				75
Industry	Total number	Per cent idle	Full time	Part time	All operating establishments	Estab- lish- ments operat- ing part time
Paper and printing Paper and pulp Paper boxes. Printing, book and job Printing, newspapers and periodicals Chemicals and allied products. Chemicals Fertilizers Petroleum refining	327 260 587 377 771 94 153	(1) 2 2 2 2 3 2 2	42 31 15 30 88 62 67 58 79	58 67 84 70 12 36 31 40 20	86 79 77 85 99 92 93 89 98	
Cottonseed oil, cake and meal	24 22 17 316 12	6 2	46 50 18 61 50	54 50 76 37 50	89 94 63 92 91	
Soap. Stone, clay, and glass products. Cement. Brick, tile, and terra cotta.	67 742 76 275	14 13 21	75 40 75 22	25 46 12 57	96 81 96 72	
Pottery Glass Marble, granite, slate, and other stone	87 143	5 8	18 69	77 23	70 94	n N
Nonferrous metals and their products Stamped and enameled ware	161 469 77	12	39 22 13	48 77 87	84 75 76	
Aluminum manufactures. Clocks, time recording devices, and clock	135 11	2	22 9	76 91	73 68	
movements Gas and electric fixtures, lamps, lanterns, and reflectors.	18 38	6	11 34	83 66	65 83	
Smelting and refining—copper, lead, and	44	2	16	82	72	
zinc. Jewelry Tobacco manufactures. Chewing and smoking tobacco and snuff.	18 128 211 32	5	56 24 22 25	44 76 73 75	89 74 80 85	
Cigars and cigarettes Transportation equipment Automobiles	179 305	6 5 5	21 36 19	73 59 76	79 81 73	
Aircraft Cars, electric and steam railroad Locomotives	31 27 14	13 4	74 19 43	13 78 57	98 71 82	
Shipbuilding Rubber products. Rubber tires and inner tubes. Rubber boots and shoes.	72 124 30 9	1	62 45 77 22	36 54 23 78	95 86 95 83	
Rubber goods, other than boots, shoes, tires, and inner tubes	85	1	36	62	83	
Machinery, not including transportation equipment Agricultural implements Electrical machinery appearatus and sup-	1, 262 53	3 9	20 19	78 72	73 79	
Electrical machinery, apparatus, and supplies Engines, turbines, tractors, and water	187		18	82	76	
wheels Cash registers, adding machines, and calculating machines	57 38	3	18 42	81 55	72 86	
Foundry and machine-shop products	754 108 27 12	3 4	19 12 26 25	78 84 74 75	70 69 77 74	
Radio	26 762 330 432	1	42 44 64 28	58 55 36 70	87 90 95 86	
Steam-railroad repair shops	432	2	28	70	86	

¹ Less than one-half of 1 per cent.



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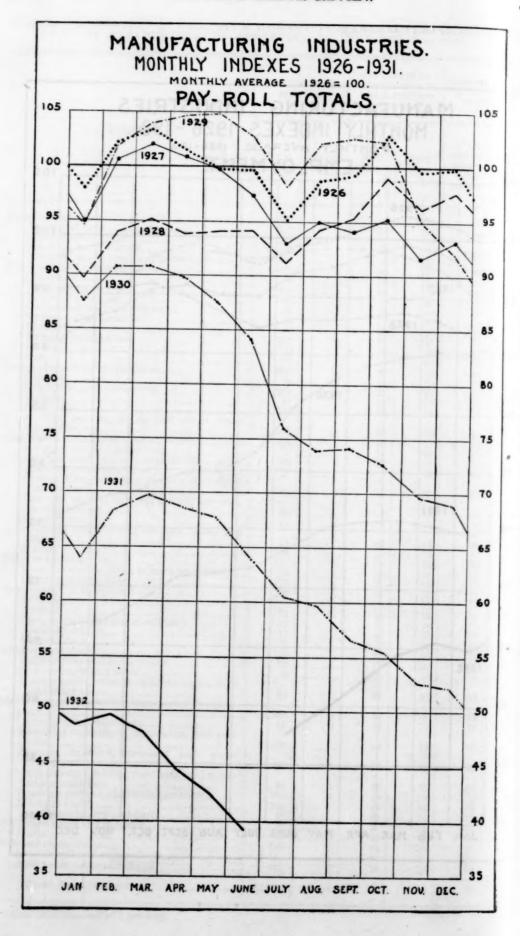
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Employment in Nonmanufacturing Industries in June, 1932

In THE following table are presented employment and pay-roll data for 14 groups of nonmanufacturing industries the totals of which also appear in the summary table of employment and earnings.

TABLE 1.—COMPARISON OF EMPLOYMENT AND EARNINGS IN NONMANUFACTUR-ING ESTABLISHMENTS IN MAY AND JUNE, 1932, AND JUNE, 1931

	Estab-	Em	ployme	nt	Ea	rnings		Index	num-
	lish- ments report- ing in	Number	chs	ent of	Amount of	cha	ent of inge	bers : 1932 (a	June, verage = 100)
Industrial group	both May and June, 1932	on pay roll, June, 1932	May to June, 1932	June, 1931, to June, 1932	pay roll (1 week) June, 1932	May to June, 1932	June, 1931, to June, 1932	Em- ploy- ment	Earn- ings
Anthracite mining Bituminous coal mining Metalliferous mining Quarrying and nonmetallic	160 1, 142 247	72, 455 149, 592 19, 630	-20.8 -3.3 -16.0	-30. 4 -22. 8 -46. 3	\$1, 488, 103 1, 781, 992 382, 299	-35. 4 -11. 0 -15. 8	-43. 9 -47. 9 -56. 4	53. 0 60. 5 32. 2	37. 4 27. 3 20. 1
mining Crude petroleum producing Telephone and telegraph Power, light, and water Electric railroad and motor	634 278 8, 011 3, 470	23, 556 21, 527 282, 548 221, 553	-2. 1 -0. 6 -0. 9 -0. 9	-31. 5 -16. 6 -8. 1 -14. 4	381, 858 673, 286 7, 813, 231 6, 716, 209	-7.0 -4.9 -0.9 -4.4	-50. 1 -28. 5 -13. 6 -18. 1	49. 5 54. 2 79. 9 83. 2	30. 0 44. 8 82. 1 80. 5
bus operation and mainte- nance	503 2,756 13,313 2,428 857	131, 195 71, 071 336, 706 135, 574 41, 070	-0.5 -1.1 -1.9 -2.7 +36.9	-11.6 -10.9 -14.8 -21.4	3, 804, 097 1, 967, 916 6, 999, 645 1, 934, 143 523, 653	-2.8 -5.0 -4.1 -4.8 +12.6	-18.4 -21.3 -22.1 -25.3 -30.9	76. 5 77. 0 79. 4 78. 0 55. 5	69. 2 66. 2 68. 2 63. 8 40. 5
Laundries	985 392	60, 563 12, 308	-0.5 + 0.7	-11.0 -14.0	1, 002, 119 244, 280	$ \begin{array}{c c} -2.8 \\ -2.2 \end{array} $	$ \begin{array}{r} -21.2 \\ -26.2 \end{array} $	81. 0 85. 1	68. 6 65. 8

Indexes of Employment and Earnings for Nonmanufacturing Industries

INDEX numbers of employment and earnings for 14 nonmanufacturing industries are presented in the following table. These index numbers show the variation in employment and earnings in these groups, by months, from January, 1929, to June, 1932, with the exception of the laundries and the dyeing and cleaning groups, for which information over the entire period is not available. The bureau recently secured data concerning employment and earnings for the index base year 1929 from establishments in the laundries and the dyeing and cleaning groups, and has computed index numbers for these two groups, which now appear in this tabulation. The collection of trend of employment statistics in these two groups did not begin until the later months of 1930. Therefore, indexes for the entire period do not appear in these tables, due to lack of available information.

TABLE 2.—INDEXES OF EMPLOYMENT AND EARNINGS FOR NONMANUFACTURING INDUSTRIES, JANUARY TO DECEMBER, 1929, 1930, AND 1931, AND JANUARY TO JUNE, 1932

[12-month average, 1929=100]

TABLE S INDU 1932—

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Januar Februa March April May

June July Augus Septer Octob Nover Decer

> Janu Febr Mare Apri May

> June

Aug Sept Octo Nov Dec

> Jan Fel Ma Ap Ma Jul Jul Sej Oc No

> > re

of States Big			Ant	hraci	te min	ning	17111			1	Bitum	inous	coal	minin	ıg	
Month]	Emplo	ymei	nt		Ear	nings		1	Emplo	ymer	nt	1	Ear	nings	
HITTH TOWNS	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1930
January	105.7	102. 1	90 6	76. 2	100. 7	105. 8	80 3	61.5	106 A	102 5	93. 9	80.8	106. 1	101 4	70	-
		106. 9		71 2	122 1	121. 5	101 9	57 3	107. 7	102. 4	91. 5	77.4	116. 6			47.
March	98.0	82 6	82. 0	73. 7	90 8	78. 5	71.3		106. 8				108. 6			3 47. 2 46.
March	100. 7	84 1	85. 2	70. 1		75. 0	75. 2	72 0	100. 2	94. 4			89. 2		0.07	46,
May	103 7	93. 8	80. 3	66. 9			76. 1	58 0	96. 6	90. 4		62 6	91.	77 6	05.	6 33.
June	92 0	90. 8			80. 7	94. 3		37. 4	94. 7			60 5	90. 0	75 6	04.	4 30.
July	83 2	91. 6			64. 7		53. 7	01. 3	94. 1						52.	27.
Angust	01 1	80. 2			79.4	78. 8	56. 4		95. 7		77. 0		92. 8		50.	0
AugustSeptember	101 0	93. 8	80. 0		100. 1	91. 6	64. 9		97. 2	00. 2	80. 4			3 -74. 9	0.00	
October	106 1	99. 0				117. 2			98. 8				106. 8			
	104. 0		83. 5			98. 0			101. 0				106. 0			2
	107. 1	99. 1	79.8													
December	107. 1	99. 1	19. 8		137. 2	100. 0	78. 4		101. 4	92. 5	81. 2		108. 2	77.7	52.	3
Average	100. 0	93. 4	80. 5	168, 5	100. 0	95. 3	75. 4	1 57. 9	100. 0	93. 4	83. 2	170.3	100. 0	81.3	57.	5 1 38.
			Meta	llifere	ous m	ining				Quarr	ying	and n	onme	tallic	mini	ng
		1				1		1	-	1	1	1	1	1	1	T
January	93. 1	95. 7	68. 3	49.3	88. 0	92.7	55. 0	29. 7	91.6	79. 6	64. 4	48. 9	85. 9	71.9	50	4 30
February	94.6	92.3	65.3	46 9	91.8	92.5	54. 6	27.8	91. 9	79.8	66. 6	47.4	88. 9	73. 3	54	4 29
March	97.0	90. 9	63. 5	45. 0	99. 1		52. 8	26. 5	96. 0	83. 0	70. 0	46. 0	95. () 80. (1 58	2 28
	100.6				104. 6		51.4	25. 0	99. 6	87.4	76. 1	48.6	100. 8	85. 4	62.	6 30
May	100.8	87. 5	62. 4	38. 3	104. 6	85. 6	49. 3	23. 8	104. 1	90.8	75. 0	50.6	107. 1	90. 2	62.	3 32
June	103.8			32. 2	105. 6	81.6	46. 1	20. 1	106. 6	90. 3	72.3	49. 5	110. 5	90. 9	60.	1 30
July	101.5	80. 5	56. 2		99. 0	71.9	41.3		104. 7	89. 9	71.0		104. 7			
	103. 2	79. 0	55. 8		100. 1	71.0	40. 2		106. 7	89. 3	68. 9		110. 3	85. 8		
	102.1	78. 1	55. 5		102.0	69. 9	40. 0		106. 6	87.7	66. 6		109. 8	82. 5	51.	2
October	101. 9	77. 2	53. 8		103. 1	68. 6	37.4		103. 6	84.7	64. 5		105. 8	79. 3		
November	103.0	72.8	52.8		102. 2	63. 4	35. 1		98. 6				96. 0	66. 8		
December	98. 5	70. 1	51. 2		99. 7	59. 9	34. 3		90. 1				85. 4	59. 9	36.	9
Average	100. 0	83. 2	59. 1	142.5	100. 0	78. 0	44. 8	1 25. 5	100. 0	84. 3	67. 4	148.5	100. 0	79. 3	53.	4 130.
		Cru	ide pe	etrole	ım pı	oduci	ing			Г	eleph	one a	and te	legrap	oh	
													1	1	1	1
anuary		92.7	74.8				71.5	46. 5	94.3	101. 6	90. 5	83. 0		105. 1		3 89
February	90. 4		73. 2	54. 4			70. 0	46. 9	95. 3	100. 2	89. 2	82. 0	93. 0	101. 9	94.	8 89
March	89.6	89. 3	72. 2	51.4			73. 2	43. 2	96. 5	99. 4	88. 6	81.7	98. 7	105. 8	97.	9 88
April	97.6		69. 8	54. 9	96. 7	86. 6	66. 3	44. 5	97.8	98. 9	88. 1	81. 2	98. 3 99. 4	103. 4	95.	0 83
	93. 9		67.8		92.4	85, 4	64. 7	47. 1	100. 4	99. 7	87.4	80. 6	99. 4	103. 2	94	1 82
une	104:1	90. 2	65. 0		99. 4	87. 1		44.8	101. 5	99.8	86.9	79. 9	100. 0	103. 4	95	0 82
uly	106. 0	89. 9	65. 3		100. 7	88, 5			102.6	100. 0	86. 6			106. 6		
August	113. 2	87. 7	62. 4		104. 7	86. 0			103. 7					102. 5		3
September	108. 9	85. 0	61 2		110. 7	84. 0	55. 2		102. 5				100. 4			
	107. 9	85. 2	60. 4		100, 1				101. 9					100. 9		6
	101. 1		57. 6		103, 8				101. 9	93. 0	83. 5		101. 2	07 0	89.	
		77. 4	58. 2		102. 1	77. 2			101. 8				103. 9	101. 3	92.	
Average	100. 0	87. 4	65. 7	54. 1	100. 0	-		45. 5	100. 0	97. 9	86. 6	181.4	100. 0	102. 9	93.	1 85

¹ Average for 6 months.

Table 2.—INDEXES OF EMPLOYMENT AND EARNINGS FOR NONMANUFACTURING INDUSTRIES, JANUARY TO DECEMBER, 1929, 1930, AND 1931, AND JANUARY TO JUNE, 1932—Continued

[12-month average, 1929=100]

				[1.	2-111011	th av	erage,	1020	= 100]				(-			
			Po	wer a	nd lig	tht			Elec	tric-ra			moto		opera	ation
Month	F	Emplo	ymen	t		Earr	nings		E	mplo	ymen	it		Earn	ings	
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932
January February March April June June July August September October November December December Jeruary Manuary June Juny August September Jecember	95. 9 98. 4 100. 7 103. 2 105. 4 105. 5 105. 7 104. 7		97. 2 96. 7 95. 9 94. 7 92. 7 91. 3	87. 2 85. 5 84. 8 84. 0 83. 2	91. 8 94. 5 95. 5 98. 1 100. 4 102. 3 103. 8 106. 6 106. 0 104. 1	100. 4 102. 1 102. 6 104. 5	97. 6 98. 7 98. 3 97. 4 96. 2 94. 3 93. 2 93. 3	86. 0 85. 4 82. 4 84. 2 80. 5	99. 1	95. 1 94. 4 95. 2 95. 2 94. 8 95. 3 92. 9 91. 8 91. 0 89. 3	85. 9 85. 3 85. 6 84. 8 84. 0 82. 7 81. 5	78. 9 77. 6 78. 0 76. 9 76. 5	97. 6	95. 4 97. 1 96. 0 97. 0 95. 6 92. 1 90. 5 88. 9 87. 7	87. 1 88. 1 86. 6 85. 1 84. 8 83. 3 81. 9 81. 2 79. 0 79. 7	73. 6 72. 4 70. 7 71. 2 69. 2
Average	100. 0	103. 0	95. 6	185. 7	100. 0	104. 3	96. 7	184.5	100. 0	93. 4	84. 7	177.9	100. 0	93. 5	83. 4	171.9
		2 1	W	holes	ale tra	de	mi	100	en	alq		Retail	trade	3		-
July August September October November December	96. 9 97. 3 97. 9 99. 0 99. 2 100. 4 101. 3 101. 9 102. 9 102. 6	96. 8 96. 5 96. 0 95. 0 94. 8 94. 2 92. 6 92. 0	88. 2 87. 4 87. 4 87. 1 86. 8 86. 5 86. 1 85. 2 84. 1 83. 7	80. 9 79. 8 78. 9 77. 9 77. 0	96. 4 98. 5 97. 8 99. 0 98. 6 100. 5 100. 0 103. 3 102. 7 101. 9 104. 7	99. 7 97. 9 97. 4 98. 6 96. 0 93. 6 92. 9 91. 0 91. 3	88. 4 89. 1 85. 2 84. 7 84. 1 83. 3 82. 1 81. 4 79. 9 79. 7 77. 8	72. 5 71. 3 68. 9 69. 7 66. 2	96. 2 95. 5 97. 3 97. 4 93. 6 97. 6 101. 7 106. 7 126. 2	94. 4 93. 9 97. 3 96. 7 93. 9 89. 0 85. 6 92. 0 95. 5 98. 4 115. 1	87. 8 90. 1 89. 9 89. 1 83. 9 81. 8 86. 6 89. 8 90. 9 106. 2	80. 5 81. 4 81. 6 80. 9 79. 4	94. 5 96. 1 96. 0 97. 1 98. 6 95. 9 95. 2 99. 2 102. 6 105. 2 120. 6	96. 0 95. 5 97. 5 97. 3 96. 8 91. 7 87. 6 92. 4 95. 1 96. 8 107. 7	87. 5 88. 3 88. 0 87. 6 83. 3 80. 3 84. 6 85. 4 94. 1	73. 7 73. 4 72. 7 71. 1 68. 2
Average	100. 0	96. 0	80. 0	Hote	100. 0	95. 9	83. 0	170. 5	100. 0		111		preser		80. 0	172.9
Fanuary February March April May une uly usust September Lotober November December A verage	99. 8 100. 9 99. 7 98. 1 99. 3 101. 1 102. 6 102. 8 100. 6 100. 0 97. 7		96. 8 96. 8 95. 9 92. 5 91. 6 93. 3 92. 8 90. 6 87. 4 84. 9 83. 1	84. 3 84. 0 82. 7 80. 1 78. 0	102. 0 103. 4 100. 6 98. 9 98. 7 99. 8 99. 4 100. 2 100. 2 99. 8 98. 9	104. 4 100. 3 98. 4 98. 1 99. 8 98. 6 97. 1 95. 5 93. 6 91. 5	93. 7 93. 4 89. 9 87. 7 85. 4 85. 2 83. 8 81. 9 79. 7 77. 1 75. 4	73. 9 72. 4 69. 6 67. 0 63. 8	48. 9 49. 4 90. 6 62. 0 76. 6 126. 8 184. 8 210. 1 143. 3 95. 1 61. 3	45. 7 49. 7 74. 8 65. 7 83. 0 126. 3 185. 7 246. 6 164. 7 96. 7 61. 6	53. 0 59. 6 56. 0 70. 6 102. 2 142. 9 180. 1 108. 1 60. 8 40. 7	37. 1 36. 3 47. 0 40. 5 55. 5	59. 2 54. 9 98. 9 71. 2 71. 9 109. 2 180. 1 207. 9 134. 5 91. 6 63. 4	51. 5 50. 8 72. 6 66. 9 81. 5 112. 7 172. 0 214. 8 140. 0 82. 9 57. 4	48. 6 50. 3 57. 1 56. 0 58. 6 74. 2 104. 7 129. 4 77. 6 48. 1 36. 9	32. 7 31. 9 37. 9 36. 0 40. 5

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47.0 47.0 46.8 33.9 30.7 27.3

0.2

Average for 6 months.
Not including electric-railroad car building and repairing; see transportation equipment and railroad repair-shop group, manufacturing industries, Table 1.

TABLE 2.—INDEXES OF EMPLOYMENT AND EARNINGS FOR NONMANUFACTURING INDUSTRIES, JANUARY TO DECEMBER, 1929, 1930, AND 1931, AND JANUARY TO JUNE, 1932—Continued [12-month average, 1929=100]

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				Laun	dries						Dyei	ng an	d clea	ning		
Month	Employment				Earn	ings		F	Emplo	ymen	it	Earnings				
	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1932	1929	1930	1931	1935
January February March April May June July August September October November			90. 0 89. 5 90. 5 90. 3	84. 7 82. 9 82. 0 82. 0 81. 4 81. 0			86. 6 85. 6 85. 6 86. 8 86. 5 87. 1 87. 4 84. 6 84. 1 81. 8 78. 9 77. 4	73. 3 71. 6 71. 4 70. 6			88. 9 87. 4 88. 0 95. 7 96. 7 99. 0 98. 6 93. 5 95. 3 94. 2 90. 1 84. 9	80. 5 80. 6 83. 3 84. 5			77. 7 75. 1 75. 6 86. 3 86. 6 89. 1 86. 2 80. 0 82. 6 81. 4 74. 7 67. 9	62. 61. 65. 67. 65.
Average	100. 0		89. 4	182.3	100. 0		84. 4	172.0	100. 0		92. 7	182. 7	100. 0	*****	80. 3	-

¹ Average for 6 months.

Trend of Employment in June, 1932, by States

IN THE following table are shown the fluctuations in employment and earnings in June, as compared with May, 1932, in certain industrial groups by States. These tabulations have been prepared from data secured directly from reporting establishments and from information supplied by cooperating State agencies. The combined total of all groups does not include building construction data, information concerning which is published elsewhere in a separate tabulation by city and State totals. In addition to the combined total of all groups, the trend of employment and earnings in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous coal mining, crude petroleum producing, quarrying and nonmetallic mining, metalliferous mining, laundries, and dyeing and cleaning groups are presented. In publishing data concerning public utilities, the totals of the telephone and telegraph, power and light, and electricrailroad operation groups have been combined and are presented as one group in this State compilation. Due to the extreme seasonal fluctuations in the canning and preserving industry, and the fact that during certain months the activity in this industry in a number of States is negligible, data for this industry are not presented separately. The number of employees and the amount of weekly earnings in May and June as reported by identical establishments in this industry are included, however, in the combined total of "All groups."

As the anthracite mining industry is confined entirely to the State of Pennsylvania, the changes reported in this industry in the summary table are the fluctuations in this industry by State total.

Where the identity of any reporting company would be disclosed by the publication of a State total for any industrial group, figures for the group do not appear in the separate industrial group tabulation but have been included in the State totals for "All groups." Data are not presented for any industrial group where the representation in the State covers less than three establishments.

COMPARISON OF EMPLOYMENT AND EARNINGS IN **IDENTICAL** ESTABLISHMENTS IN MAY AND JUNE, 1932, BY STATES

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

1074		Tot	al—all g	roups			M	anufacti	uring	
State	Num- ber of estab- lish- ments	Number on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change	Number of establishments	Num- ber on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change
AlahamaArkansasCaliforniaColorado	501	43, 115	-11.7	\$466, 361	-18. 5	205	28, 526	-11.6	\$299, 828	-20.6
	448	13, 706	-4.4	207, 410	-5. 4	175	9, 065	-4.5	119, 149	-5.1
	374	8, 733	-7.6	198, 597	-15. 6	62	2, 050	+2.3	47, 005	-9.1
	1, 425	210, 718	-0.3	5, 202, 527	-1. 9	1,140	124, 868	+0.2	2, 987, 494	-2.2
	586	27, 740	-0.6	585, 156	-3. 6	120	10, 968	+1.0	225, 516	-4.1
Connecticut Delaware Dist. of Columbia_ Florida Georgia	1, 061	124, 860	-3.3	2, 242, 298	-4.0	677	105, 725	-3.8	1, 730, 860	-4.
	131	8, 474	(1)	161, 133	-1.3	52	5, 575	-3.0	106, 060	-2.
	582	29, 317	-2.1	726, 400	-2.8	56	4, 064	+1.5	137, 133	-1.
	511	21, 869	-0.2	382, 767	+0.5	138	14, 265	+4.6	211, 692	+6.
	632	62, 112	-6.8	777, 050	-10.0	305	49, 190	-7.5	491, 503	-12.
IdahoIllinoisIndianaIowaKansas	1, 121	7, 191 269, 074 111, 253 43, 344 41, 131	+5. 2 -0. 7 -0. 3 -0. 2 -2. 4	139, 277 5, 831, 455 2, 028, 827 867, 151 913, 497	+2.7 -2.5 -7.7 -1.5 -3.7	39 996 596 474 431	3, 713 166, 419 82, 195 23, 611 23, 974	+24.8 -1.0 -1.3 +0.5 -2.1	64, 327 3, 050, 389 1, 451, 802 463, 159 531, 535	+24. -4. -8. +0. -5.
Kentucky Louisiana Maine Maryland Massachusetts	504	57, 293 28, 789 33, 314 73, 183 322, 051	-2.9 -3.4 -6.7 -3.5 -2.4	861, 324 447, 680 560, 014 1, 439, 529 7, 020, 950	-6.5 -4.6 -9.2 -1.9 -4.1	229 222 186 459 1,081	20, 604 17, 678 26, 513 48, 558 136, 146	-6. 1 -2. 1 -8. 3 -5. 2 -5. 1	335, 966 243, 469 413, 050 871, 754 2, 392, 984	-7. -4. -12. -2. -6.
Michigan Minnesota Mississippi Missouri Montana	1,009	276, 834 61, 321 8, 945 97, 314 5, 608	-1.4 +0.5 -2.0 -2.2 -4.5	6, 203, 596 1, 336, 840 113, 058 2, 070, 245 123, 481	-9.4 -2.8 -6.4 -4.0 -5.3	406 282 78 524 49	188, 194 30, 821 4, 493 53, 006 1, 935	+0.4 +(5) -8.7 -3.4 -11.8	4, 256, 285 640, 989 47, 814 1, 016, 959 40, 701	-8. -1. -12. -5. -8.
Nebraska	716	21, 659	-1.8	499, 685	-4.8	135	10, 559	-3.3	242, 877	-6,
Nevada	136	1, 723	+6.6	45, 787	-0.4	23	292	-1.4	8, 847	-5,
New Hampshire	460	28, 872	-2.9	456, 113	-5.1	192	25, 127	-2.9	364, 836	-5,
New Jersey	1, 480	179, 909	-2.3	4, 106, 155	-2.8	6 711	166, 112	-1.4	3, 632, 737	-3,
New Mexico	172	4, 332	-3.6	78, 069	+0.8	23	234	-5.6	4, 971	-5,
New York North Carolina North Dakota Ohio Oklahoma	1, 689	300, 128	-3.1	6, 722, 247	-4.8	71,637	292, 301	-3. 4	6, 494, 773	-5.
	893	90, 426	-4.6	988, 987	-8.2	558	85, 623	-4. 7	908, 660	-8.
	263	3, 719	+1.0	85, 063	-1.8	57	1, 221	+2. 5	30, 646	-0.
	4, 602	354, 688	-2.1	6, 811, 638	-5.7	1,963	264, 158	-3. 4	4, 861, 232	-6.
	702	24, 532	-1.9	543, 363	-4.6	126	8, 554	-0. 6	183, 657	-4.
Oregon Pennsylvania Rhode Island South Carolina South Dakota	698	28, 881	+5.0	565, 165	-1.4	170	15, 273	+1.8	271, 266	-1.
	4, 135	563, 896	-5.2	9, 685, 294	-12.3	1,755	314, 044	-2.8	4, 731, 227	-4.
	908	45, 260	-2.7	828, 858	-3.4	277	33, 814	-3.2	551, 479	-4.
	318	34, 227	-18.4	326, 724	-21.7	174	30, 650	-20.1	267, 671	-24.
	162	5, 412	-0.1	128, 104	-4.2	48	1, 971	-0.4	38, 665	-7.
Tennessee	753 706 335 360 1, 269	56, 453 53, 603 11, 600 8, 903 68, 291	$ \begin{array}{c c} -6.2 \\ +0.6 \\ +(5) \\ -3.0 \\ -9.0 \end{array} $	761, 146 1, 245, 148 213, 656 173, 518 1, 072, 348	-9. 1 -(5) -4. 9 -10. 4 -10. 8	290 527 89 119 450	39, 866 27, 814 3, 272 4, 434 48, 213	$ \begin{array}{r} -7.6 \\ +0.6 \\ +2.1 \\ -3.5 \\ -11.6 \end{array} $	498, 457 576, 467 58, 689 83, 298 718, 287	-11. -0. -7. -15. -13.
Washington	1, 072	48, 563	+1. 1	1, 013, 433	-3.9	267	23, 492	+1. 1	432, 110	-4.
West Virginia	729	78, 113	-3. 7	1, 203, 797	-11.7	186	30, 313	-4. 9	526, 669	-12.
Wisconsin	1, 099	125, 005	-0. 5	2, 099, 316	-5.5	825	95, 458	9 -0. 5	1, 456, 886	9 -7.
Wyoming	186	5, 727	-1. 5	138, 978	-8.4	27	1, 209	-3. 4	35, 753	-8.

No change.
 Includes building and contracting.
 Includes transportation and financial institutions.
 Includes building construction.
 Less than one-tenth of 1 per cent.
 Includes laundries.
 Includes laundering and cleaning.
 Does not include hotels.
 Weighted per cent of change, inclusive of canning.

COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS IN MAY AND JUNE, 1932, BY STATES—Continued

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Alaba Arkan Arizo Califo Color

Conn Delay Dist. Flori Geor

Idah Illind India Iowa Kans

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[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

- The		W	holesale t	trade		14	1	Retail tr	ade	
State	Num- ber of estab- lish- ments	Num- ber on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change	Num- ber of estab- lish- ments	Num- ber on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change
Alabama	17	515	-2.5	\$14, 676	-4.1	64	1, 787	-3.8	\$26, 728	-9.5
Arkansas		450	-5.1	12, 808	-7.5	144	1, 386	-0.5	24, 747	-5.1
Arizona		179	-3.8	4, 900	-12.1	186	1, 417	-2.3	-27, 991	-6.6
California		4, 956	-1.3	149, 601	-3,3	96	25, 333	-1.8	513, 298	-4.9
Colorado		715	-0.6	21, 876	-7.4	120	3, 733	-2.9	75, 827	-3.3
Connecticut	10	1, 235	-0.9	36, 412	-2.8	114	4, 811	+1. 2	99, 463	-1.5
Delaware		172	+3.0	4, 763	+1.3	15	174	-5. 9	2, 723	-6.8
Dist. of Columbia_		338	-0.9	11, 567	-2.6	402	10, 160	-2. 8	228, 146	-3.2
Florida		652	-3.3	16, 422	-4.4	73	900	-1. 9	18, 890	-3.4
Georgia		377	-1.8	10, 629	-4.9	33	2, 006	-0. 1	34, 540	-4.0
Idaho	13 64 35	82 694 1,250 1,056 734	(1) +12.8 -2.6 +0.2 -4.2	2, 321 16, 445 32, 390 29, 533 22, 706	-5.7 +7.4 -10.2 -7.8 -1.1	71 63 186 127 42	779 18,003 6,355 3,325 2,391	+14.1 -0.9 -0.5 -2.1 -0.1	14, 033 440, 322 117, 830 60, 939 46, 430	~1.7 \$3.0 ~1.9 ~3.6 ~3.9
Kentucky	28	551	-13.8	12, 464	-8.6	31	1,538	+0.1	24, 580	-4.7
Louisiana		661	-1.2	15, 421	-8.9	56	2,939	-1.0	44, 749	-4.6
Maine		437	+3.6	10, 049	+1.2	79	1,300	-3.1	24, 149	-4.7
Maryland		828	+1.3	18, 500	-2.2	39	4,729	-1.5	81, 978	-3.4
Massachusetts		14, 514	-0.1	400, 065	-1.8	4, 026	60,113	-1.0	1, 273, 299	-2.5
Michigan	60 5	1, 511	+0.3	46, 598	-6.7	210	11, 375	-2. 2	236, 246	-4.2
Minnesota		3, 852	-0.7	111, 749	-2.4	287	7, 862	+0. 7	140, 958	-4.6
Mississippi		125	(1)	2, 359	-4.5	77	449	-3. 2	5, 764	-2.9
Missouri		4, 835	-1.6	118, 124	-8.2	135	5, 977	-5. 0	125, 057	-3.4
Montana		232	-1.3	7, 166	-5.0	91	913	+3. 9	19, 844	-5.1
Nebraska Nevada New Hampshire New Jersey New Mexico	35 6 14 28 10	919 84 157 597 118	-4.1 +5.0 -1.9 -0.2 +2.6	26, 355 3, 247 4, 388 19, 050 4, 359	-7.0 -3.2 -3.7 -1.6 +7.5	195 37 65 432 40	1,592 307 598 7,566 238	-0.4 +2.7 -0.5 -2.3	31, 902 8, 205 11, 091 171, 583 5, 283	-5.6 +2.1 -5.5 -4.0 -1.8
New York	179	5, 498	-1.2	182, 712	-1.7	406	44, 458	-1.9	1, 057, 774	-3.9
North Carolina	19	295	-0.3	7, 223	-5.8	177	594	-0.3	12, 145	+0.2
North Dakota	16	230	-0.4	6, 905	-3.7	40	433	-0.5	7, 017	-5.8
Ohio	226	4, 827	+0.7	128, 822	-3.6	1, 463	30, 471	-4.0	604, 121	-4.3
Oklahoma	45	750	-1.2	22, 149	-6.7	121	1, 758	-4.9	33, 086	-10.8
Oregon	60	1, 408	-2.2	40, 393	-8.0	201	2, 357	-9.4	47, 379	-18.8
Pennsylvania	139	3, 471	-1.7	93, 766	-6.7	334	26, 881	-0.6	544, 416	-1.7
Rhode Island	45	1, 033	-2.6	26, 030	-4.0	506	4, 897	-2.4	108, 522	-3.1
South Carolina	18	253	-8.0	6, 111	-5.9	15	420	-2.3	4, 110	-6.6
South Dakota	10	129	-1.5	3, 821	-6.7	20	338	+4.3	5, 246	-4.7
Tennessee	35	666	+0. 2	15, 450	-2.6	66	3, 515	-1.3	55, 989	-4.5
	112	2, 123	-0. 3	59, 808	-3.4	83	6, 221	-1.5	118, 645	-5.2
	16	496	(1)	12, 363	-2.4	82	573	+5.5	13, 066	-2.7
	5	119	+7. 2	2, 974	+3.8	47	494	-3.9	8, 673	-3.1
	51	1, 031	-16. 9	25, 492	-9.9	495	4, 782	-2.1	93, 767	-3.0
Washington	98	2, 265	-1.8	64, 913	-8.1	345	6, 139	-2.1	118, 504	-4.4
West Virginia	39	643	+2.6	18, 921	-3.8	47	916	-1.1	16, 870	-10.9
Wisconsin	45	1, 935	-3.2	43, 638	-9.5	51	7, 996	-4.2	126, 246	-7.6
Wyoming	8	56	+1.8	1, 854	-1.9	46	229	+5.0	5, 762	-3.9

¹ No change.

COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS IN MAY AND JUNE, 1932, BY STATES—Continued

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

	Qua	arrying ar	nd nonn	netallic mir	ing		Meta	lliferous	mining	
State	Number of establishments	Number on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change	Number of establishments	Number on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change
AlabamaArkansas	7 9	283 114	-10.7 -28.7	\$2,707 1,423	-25. 9 -20. 0	6	716	-30. 6	\$4, 400	-51. 5
ArizonaCaliforniaColorado	29 3	631 21	-0.8 + 23.5	13, 114 225	-13.5 -21.9	13 18 15	2, 844 1, 328 713	$-18.4 \\ +0.3 \\ +5.6$	66, 958 36, 012 19, 879	$ \begin{array}{r rrrr} -29.0 \\ -5.1 \\ -2.7 \end{array} $
Connecticut	9	126	-38.8	2, 193	-40. 2					
Dist. of Columbia.										
Florida Georgia	6 19	564 1, 043	(1) -3.3	6, 591 11, 278	-4. 2 -3. 0	•••••				
IdahoIllinoisIndiana	23 32	611 1, 651	+9. 7 +2. 3	10, 265	-5.4	11	1, 579	-21.7	38, 420	-18.3
Indiana	17	346	+24.0	28, 794 5, 944	-2.2 +25.2	******				
Kansas	20	962	+3.9	22, 401	+10.6	8	309	-25.2	3, 407	-27.7
Kentucky	28	685	-5.4	4, 871	-6.1	******				
Louisiana	4 5	464 58	-2.5 -3.3	5, 032	-9.8					
Maine Maryland	17	450	-3.3	1, 573 6, 830	+2.9 +1.4					
Massachusetts	18	361	-13.4	8, 690	-21.7					
Michigan	22	616	-37.4	10, 270	-24.9	35	4, 650	-19.0	54, 814	-16.0
Minnesota	6	187	+13.3	3, 223	-7.2	33	617	-1.9	9, 829	+14.2
Mississippi	3		+29.5	735	+81.0					
Missouri Montana	13	212 17	-4.9 -15.0	3, 194 251	+0.1 -39.4	11 14	1, 031 43	-0.3 +30.3	20, 694 922	+2.0 +13.3
Nebraska	3	132	+5.6	2, 314	-2.3					
New Hampshire.	10	134	-0.7	3, 632	+2.3	15	357	+9.2	8, 503	-9.5
New Jersey New Mexico	3	42	-16.0	1, 550	-4.0	3 4	28 854	-57.6 +2.0	573 16, 010	-36. 0 +3. 2
New York	43	2, 062 85	+1.8 -28.0	41, 249 1, 004	-5.5 -31.6					
North Dakota				-,001	01.0					
Oklahoma	63	1, 695 61	(1) -4.7	30, 272 727	-10.0 -17.3	28	307	-57.8	5, 783	-52. 2
Pennsylvania	60	2, 943	-2.2	33, 755	-14.5	4	114	+16.3	2, 698	+18.0
Rhode Island	7	107	+9.9							
South Dakota	3	167 14	-39. 1	905 321	-30. 0 -47. 0					
Ceras Jtah	20 22	918 915	-7.9 +43.2	13, 580 18, 053	-7.2 +32.9	4	245	-7.9	2, 776	-13. 2
ermont	39	2, 254	-4.7	47, 239	-7.9	11	2, 197	-7.6	39, 926	-7.8
/irginia	18	1,001	+1.7	10, 460	+0.4					
Washington	7	173	+3.6	4, 318	+3.9	13-	TO THE			
Vest Virginia	7 7	411	-14.2	4, 196	-11.6					
Visconsin	13		+44.7	2,906	+53.4					
Vyoming		1	2017				7 7 7 7			1

¹ No change.

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[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

100		Bitumi	nous co.	al mining	1111		Crude pe	etroleun	n producing	1
State	Number of establishments	Number on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change	Num- ber of estab- lish- ments	on pay roll, June,	Per cent of change		Per cent o
Alabama	41 5	7, 148 55	-16.9 +1.8	\$52,776 581	-28. 1 -1. 1	8	195	+2.6	\$4, 684	-3.
California Colorado	37	3, 332	-7.0	42, 284	+0.6	39	5, 314	-2.2	178, 929	-7.
Connecticut		******					*****			
Delaware Dist. of Columbia									********	****
Florida										
Georgia									**********	
Idaho									*********	
IllinoisIndiana	23 39	1,047 2,324	+16.5 -10.3	18, 389 47, 948	$-4.4 \\ -14.6$	9	181	-5.2 +16.0	4,028	-1.
Iowa	21	2, 103	-4.6	35, 245	-5.9		29	+16.0	500	
Kansas	14	1, 437	-10.2	21, 150	-14.1	33	1,143	-2.3	29, 036	-0.
KentuckyLouisiana	144	23, 203	+0.1	265, 948	-7.2	6 8	173 164	-1.7 +1.9	3, 502 4, 518	+6.
Maine		1 812	10		100					
Maryland Massachusetts	14	1,313	+3.1	7, 334	-17.5			******		
Michigan										
Minnesota										
Mississippi	16	000	±10.0	10 10	100					
Montana	8	920 799	+10. 2 -4. 0	16, 400 16, 147	+9.0 -2.0	5	41	-8.9	1, 140	-5.
Nebraska									-, -20	1
Nevada										*****
New Hampshire New Jersey										
New Mexico	13	1, 752	-6.0	25, 690	+2.3	4	42	-6.7	1, 555	+1.
New York						4	87	+3.6	2, 479	-7.
North Carolina North Dakota										
Ohio	42	2,088	-14.6	36, 021	-12.8	6	78	+23.8	1, 297	+10.
Oklahoma	14	365	+6.4		+14.5	66	4, 557	-1.0	126, 188	-2
Oregon										
Pennsylvania	366	51, 664	-2.1	570, 257	-11.0	21	428	+6.5	10, 353	+0
Rhode Island										
South Dakota										
Cennessee	16	2, 612	-7.6	20, 202	-13.6					
Texas					0.00	8	6,279	-1.6	236, 860	+2.
tah	12	1,499	-1.7	24, 734	-6.8					
rginia	26	3, 734	-1.3	30, 785	-13.1					
			4-1018	N = Water Park	0.40	1 1 1 1				
Vashington Vest Virginia	10 255	1, 176 37, 304	$\begin{bmatrix} -3.4 \\ -2.8 \end{bmatrix}$	27, 163 437, 655	-8.4 -12.8	9	351	10.2	9 000	
Visconsin								+0.3	8, 837	
Vyoming	31	3, 266	-1.9	73, 268	-10.5	7	164	+3.8	4, 382	-7

COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS IN MAY AND JUNE, 1932, BY STATES—Continued

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

	e (ald	Pt	ıblic uti	lities		ion.		Hotel	S	
State	Num- ber of estab- lish- ments	Number on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change	Number of establishments	Number on pay roll, June, 1932	Per cent of change		Per cent of change
Alabama Arkansas Arizona California Colorado	123	2,006	-2.4	\$44, 266	-2.2	28	1, 233	-2. 2	\$11, 493	-3, 8
	49	1,178	-10.7	31, 119	-4.3	17	905	-2. 1	10, 896	-4, 6
	68	1,468	-2.8	39, 276	-1.3	13	338	-8. 2	5, 423	-8, 6
	42	49,697	-3.6	1, 439, 045	+0.3	242	10, 460	-0. 9	176, 280	-3, 6
	196	5,740	-1.4	156, 961	-4.0	31	1, 180	+5. 3	18, 175	+0, 8
Connecticut Delaware Dist. of Columbia. Florida Georgia	134 28 21 183 184	10, 139 1, 106 8, 334 4, 279 7, 127	$\begin{array}{c} -0.7 \\ +0.6 \\ +0.2 \\ -1.7 \\ -2.7 \end{array}$	326, 440 29, 929 246, 781 115, 900 207, 838	-2.6 +1.0 -1.3 -2.3 -4.2	32 5 51 37 33	1, 228 256 4, 013 624 1, 524	-0.2 -3.4 -10.2 -19.4 -14.7	16, 570 2, 993 61, 618 6, 954 12, 609	-3.4 -12.5 -11.4 -24.4 -22.4
IdahoIllinoisIndianaIowaKansas	57 62 132 377 24	729 68, 969 10, 073 10, 031 7, 199	-1.6 -1.7 -2.3 -1.0 -0.6	15, 234 2, 055, 514 256, 911 240, 557 180, 460	+0.6 -2.2 -6.4 -4.0 +0.6	14 10 52 58 52 21	246 8, 589 2, 734 2, 028 579	-11.8 +2.1 -2.4 -8.8 -4.5	3, 574 144, 190 33, 481 21, 741 6, 518	-4.
KentuckyLouisianaMaineMarylandMassachusetts	303	7, 310	-(5)	173, 609	-1.9	37	1, 829	-10.8	20, 598	-16.
	153	4, 513	-2.2	110, 673	-2.7	20	1, 828	-5.5	21, 076	-9.
	173	2, 863	-2.9	81, 030	+0.3	27	935	+13.9	13, 320	+10.
	92	13, 117	+9.2	378, 066	-0.1	28	805	+0.8	10, 841	-4.
	11 138	47, 015	-1.8	1, 394, 885	-4.1	108	6, 685	+2.8	85, 605	-2.
Michigan Minnesots Mississippi Missouri Montana	416 234 202 220 87	24, 399 13, 198 2, 413 23, 622 960	$\begin{array}{r} -1.3 \\ +0.2 \\ +0.2 \\ +0.4 \\ +0.3 \end{array}$	725, 172 363, 137 45, 354 660, 336 25, 337	-2.3 -4.8 -3.1 -1.9 -2.5	71 61 20 76 18	4, 391 3, 002 581 4, 418 263	-2.1 -0.5 +0.5 -3.3 -2.6	62, 119 40, 031 4, 819 57, 000 4, 263	-4. -2. -5. -4. -3.
Nebraska	298	5, 881	-0.5	159, 740	-1.9	32	1, 434	$ \begin{array}{r} -4.1 \\ +23.5 \\ +11.7 \\ -5.1 \\ -0.3 \end{array} $	16, 798	-6.
Nevada	39	443	+8.8	12, 398	+5.0	12	184		3, 264	+24.
New Hampshire	144	2, 191	-5.4	62, 890	-2.1	17	343		4, 191	+5.
New Jersey	278	24, 177	-0.7	754, 937	-2.4	79	4, 973		69, 552	-4.
New Mexico	56	539	-8.8	12, 708	-3.4	15	308		3, 611	+2.
New York	913	112, 022	-0.8	3, 514, 273	-1.9	279	30, 802	-3. 2	508, 053	-5.
North Carolina	77	1, 820	-0.4	38, 633	-2.6	38	1, 152	-9. 8	11, 499	-10.
North Dakota	117	1, 189	+1.6	31, 404	-1.6	20	386	-2. 3	4, 514	-2.
Ohio	475	33, 077	-0.2	878, 651	-3.2	168	9, 662	-2. 5	133, 217	-4.
Oklahoma	247	6, 495	+1.3	147, 072	-2.2	35	768	+0. 1	7, 529	-3.
Oregon	189	5, 870	+0.3	156, 117	-0.2	39	1, 080	(1)	16, 057	-3.
	700	53, 558	-0.2	1, 562, 379	-2.8	188	10, 702	-0.1	145, 204	-3.
	35	3, 648	+0.5	109, 851	+0.9	18	403	-1.5	5, 722	-5.
	79	1, 637	-9.6	39, 161	-9.1	14	435	-2.2	3, 361	-14.
	58	919	-1.9	24, 859	-6.0	15	330	+3.4	4, 319	+5.
Tennessee Texas Utah Vermont Virginia	251	5, 076	-1.7	119, 714	-2.6	41	2, 275	-1.0	21, 367	-4.
	105	6, 758	+1.5	190, 879	+0.1	54	8, 513	-2.5	44, 496	-2.
	69	1, 936	+1.4	40, 747	-0.8	14	535	-0.2	8, 078	-3.
	118	978	-3.5	23, 861	-4.4	22	495	+8.1	5, 638	+2.
	152	5, 934	-1.1	150, 802	-6.2	35	2, 213	-3.1	25, 538	-8.
Washington West Virginia Wisconsin Wyoming	204 118 19 41 47	10, 143 6, 179 11, 088 452	-0.9 -2.7 +0.1 +0.9	286, 082 165, 782 523, 894 11, 663	-4.0 -6.4 -1.8 -0.8	58 41 10 44 11	2, 137 1, 183 1, 389 181	-0.7 -7.7 +6.8 +2.8	28, 906 13, 783 (13) 2, 706	-3. -7.

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No change.
 Less than one-tenth of 1 per cent.
 Includes restaurants.
 Includes steam railroads.
 Includes steam railways and express.
 Data not supplied.

COMPARISON OF EMPLOYMENT AND EARNINGS IN IDENTICAL ESTABLISHMENTS IN MAY AND JUNE, 1932, BY STATES—Continued

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[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

	Marz		Laundr	ies		Dyeing and cleaning					
State	Number of establishments	Number on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change	ber of estab-	Number on pay roll, June, 1932	Per cent of change	Amount of pay roll (1 week), June, 1932	Per cent of change	
AlabamaArkansasArizona	5 19 9	532 509 399	-4.5 +0.4 -2.9	\$5, 596 5, 207 6, 252	-3.9 -0.2 -7.9	4	164	-1.8	\$1, 992	-2.1	
California Colorado	76 10	5, 864 783	-1.1 -1.5	113, 089 12, 374	-4.1 -3.5	10	145	-2.0	3,069	-2(
Connecticut	27 4 21 7 13	1, 374 313 2, 284 396 643	-1.6 (i) +1.9 +0.5 +1.4	24, 780 4, 985 38, 513 4, 337 6, 380	-1.3 -1.3 -0.5 -2.4 +0.5	7 4 5 4 5	208 47 118 37 137	+0.5 +2 2 +7.3 -7.5 -2.1	5, 285 840 2, 535 536 1, 663	- (5) +4.1 +7.0 -9.1 -3.0	
Idaho Illinois Indiana Iowa Kansas	14 22 19 3 14 27	1, 577 1, 611 223 813	-0.6 -1.6 +2.8 -3.0	22, 179 23, 567 3, 792 12, 266	-(5) -6.9 +1.1 -3.5	11	199	-3.9	3, 520	-7.0	
KentuckyLouisiana	18	843	-1.3	11, 419	-4.1	5	235	-0.4	3, 618	-8.1	
Maine Maryland Massachusetts	22 23 103	491 1, 635 3, 652	+0.8 +0.6 +4.1	7, 475 28, 505 64, 129	-2.2 +4.4 +1.4	13 121	208 1, 988	+6.7 +2.3	3, 578 39, 959	+4.0	
Michigan Minnesota Mississippi	24 16 5	1,729 865 321	-0.9 +0.8	24, 215 15, 022 3, 200	-5.4 -2.8 -0.9	19 9	727 276	+0.3 -2.1	16, 087 5, 181	-2,5 -6,6	
Missouri Montana	32 15	2, 553 351	-1.4 -2.2	37, 859 6, 724	$ \begin{array}{r r} -0.3 \\ -2.1 \\ -5.7 \end{array} $	14 3	427 24	+4.1 -4.0	8, 266 489	+1. +1.	
Nebraska Nevada	10 4	764 56	-0.5 -5.1	13, 470 1, 323	+2.9 -3.1	5	151	-1.3	3, 494	-1.	
New Hampshire New Jersey New Mexico	16 28 5	298 3, 049 235	+2.8 +2.0 -0.4	4, 676 65, 160 3, 624	$ \begin{array}{r} -0.5 \\ -0.2 \\ -1.0 \end{array} $	9	380	+8.3	10, 789	-0,	
New York North Carolina	69	7, 102 787	+(5) -0.6	131, 813 9, 081	-1.2 -0.8	18	630	+2.1	13, 972 592	-1. -14.	
North Dakota Ohio Oklahoma	82 8	235 4, 688 625	$ \begin{array}{c c} -0.4 \\ -1.5 \\ -2.3 \end{array} $	4, 097 77, 152 8, 403	$ \begin{array}{r} -1.5 \\ -6.1 \\ -2.5 \end{array} $	42 6	1, 716 225	-0.8 -3.0	32, 002 3, 171	-7. -3.	
Oregon Pennsylvanía Rhode Island South Carolina South Dakota	47 20 8 6	3, 542 1, 141 294 141	-1.6 +0.7 +2.4 -1.4	57, 397 20, 952 2, 963 2, 303	-3. 2 -1. 1 -1. 0 -1. 0	4 25 5 4	38 1, 199 290 72	-5.0 +0.4 -0.3 -2.7	877 23, 415 5, 771 1, 119	-8, -3, +2, -3	
Tennessee Texas Utah Vermont Virginia	14 19 5 6 12	1, 024 932 507 88 883	$ \begin{array}{r} -2.8 \\ +2.6 \\ -2.3 \\ +4.8 \\ -0.8 \end{array} $	10, 182 10, 905 7, 079 1, 081 10, 308	$ \begin{array}{r} -1.7 \\ -3.1 \\ -5.6 \\ +5.3 \\ -1.7 \end{array} $	7 18 6 3 24	72 357 65 26 336	+5.9 (1) -4.4 (1) +1.5	1, 014 6, 471 1, 155 523 5, 211	+1. -0. -8. +0. +4.	
Washington West Virginia Wisconsin Wyoming	16 19 14 26 5	760 636 955 113	-2.8 -4.9 -1.3 -1.7	16, 957 8, 322 15, 000 2, 202	-4. 2 -11. 5 -2. 1 -6. 0	13 8	175 177	-1.1 +1.1	3, 634 2, 762	-2, -5,	

No change.
 Less than one-tenth of 1 per cent.
 Includes dyeing and cleaning.

Employment and Pay Roll in June, 1932, in Cities of Over 500,000 Population

In THE following table are presented the fluctuations in employment and earnings in June, 1932, as compared with May, 1932, for 13 cities of the United States having a population of 500,000 or over. These fluctuations are based on reports received from identical

establishments in each of the months considered.

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These city tabulations include all establishments reporting in all of the industrial groups, except building construction in these 13 cities, and also additional employment information secured from banks, insurance companies, garages, and other establishments in these 13 cities. Building-construction data are not included in these totals, as information is not available for all cities at this time.

FLUCTUATIONS IN EMPLOYMENT AND EARNINGS IN JUNE, 1932, AS COMPARED WITH MAY, 1932

	Number of establish- ments re-	Number o	on pay roll	Per	Amount of we	pay roll (1 ek)	Per
Cities	porting in both May and June, 1932	May, 1932	June, 1932	cent of change	May, 1932	June, 1932	cent of change
New York CityChicago, Ill	1, 846	290, 257	281, 050	-3. 2	\$8, 216, 866	\$7, 868, 074	-4. 2
	1, 839	199, 589	197, 681	-1. 0	4, 988, 831	4, 799, 824	-3. 8
Philadelphia, Pa	682	112, 845	109, 623	$-2.9 \\ +1.7$	2, 457, 286	2, 374, 394	-3. 4
Detroit, Mich	560	188, 502	191, 620		5, 080, 580	4, 745, 899	-6. 6
Los Angeles, Calif	566	55, 026	54, 012	-1.8	1, 400, 076	1, 338, 747	-4.4
Cleveland, Ohio	1, 001	78, 100	77, 641	-0.6	1, 731, 956	1, 619, 356	-6.5
St. Louis, Mo	498	64, 858	62, 926	-3.0	1, 423, 465	1, 368, 929	-3.8
	573	47, 323	46, 790	-1.1	968, 055	958, 098	-1.0
Boston, Mass	2, 508	85, 288	83, 560	-2.0 + 1.5	2, 178, 046	2, 098, 602	-3. 6
Pittsburg, Pa	328	48, 968	49, 681		1, 000, 526	999, 131	-0. 1
San Francisco, Calif	890 273 467	40, 535 38, 191 37, 352	40, 353 36, 239 36, 276	$ \begin{array}{r r} -0.4 \\ -5.1 \\ -2.9 \end{array} $	1, 043, 171 915, 072 776, 892	991, 828 854, 889 723, 189	-4.9 -6.6 -6.9

Employment in Executive Civil Service of the United States, June, 1932

THE table following shows, for the months of June, 1931, and May and June, 1932, the number of officers and employees of the executive civil service of the United States Government. The figures are complete except for temporary employees in the field service of the Post Office Department, the number of which varies greatly, mainly because of seasonal demand. The principal need for such workers is during the Christmas mail rush. Their term of

service is usually quite brief.

As indicated by the title of this article, the figures do not include the legislative, judicial, or Army and Navy services. The data are compiled by the various Federal departments and offices and sent to the United States Civil Service Commission, where they are assembled. They are published here by courtesy of the commission and in compliance with the direction of Congress. No information has yet been collected relative to the amounts of pay rolls. Because of the importance of Washington as a Government center the figures for the District of Columbia are shown separately and included in the total for the entire service.

At the end of June, 1932, there were 578,231 employees in the executive civil service of the United States. Of this number, 542,354

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were permanent and 35,877 were temporary employees. In the interval between June 30, 1931, and June 30, 1932, there was a gain of 7,312 permanent employees but a loss of 9,215 temporary employees, making a loss of 1,903 employees in the entire civil service or 0.3 per cent. Comparing the number of employees on the pay roll on June 30, 1932, with those on the pay roll on May 31, 1932, there was a loss of 1,435 permanent employees but a gain of 3,290 temporary employees, resulting in a net gain of 1,855 employees or 0.3 per cent.

The number of employees in the District of Columbia showed a decrease of 582 comparing June, 1932, with May, 1932, and a loss of 2,832 comparing June, 1932, with June, 1931.

During the month of June, 1932, 21,818 employees were hired in the entire Federal service and 19,963 employees separated from the service on account of resignation, termination of appointment, death, retirement, or other causes. This gives a net turnover rate of 3.46 per cent for the month.

The turnover rate for the District of Columbia was less than one-third that for the entire country. On June 30, 1932, there were 68,793 employees on the Government pay roll in the District of Columbia. Of this number 65,619 were permanent and 3,174 were temporary workers.

EMPLOYEES IN THE EXECUTIVE CIVIL SERVICE OF THE UNITED STATES, JUNE, 1931, MAY AND JUNE, 1932 1

	District of Columbia			Outside District			En	Entire service			
Item	Per- ma- nent	Tem- po- rary 2	Total	Per- ma- nent	Tem- po- rary ³	Total	Per- ma- nent	Tem- po- rary ²	Total		
Number of employees—	3	100		100							
June, 1931	64, 204	7, 421	71, 625	470, 838	37, 671	508, 509	535, 042	45, 092	580, 13		
May, 1932	66, 062	3, 313	69, 375	477, 727	29, 274	507, 001	543, 789	32, 587	576, 37		
June, 1932	65, 619	3, 174	68, 793	476, 735	32, 703	509, 438	542, 354	35, 877	578, 23		
Gain or loss—		000									
June, 1931-June, 1932	+1,415	-4,247	-2,832	+5,897	-4,968	+929	+7,312	-9,215	-1,90		
May, 1932-June, 1932	-443	-139	-582	-992	+3,429	+2,437	-1,435	+3,290	+1,85		
Per cent of change—		1				To the	200				
June, 1931-June, 1932	+2.2		-4.0		-13.2			-20.4			
May, 1932-June, 1932	7	-4.2	8	2	+11.7	+. 5	3	+10.1	+.		
Labor turnover, June, 1932—	1			DATE:		1000	1 21111				
Additions	423	286	709	2, 368		21, 109	2, 791		21, 81		
Separations	866	425	1, 291	3, 360	15, 312	18, 672	4, 226		19, 96		
Turnover rate	0. 64	8. 82	1.03	0. 50	49. 41	3. 67	0. 51	45. 97	3.4		

¹ Certain revisions have been made from time to time by the Civil Service Commission by dropping certain classes of employees previously carried in the tabulations. Thus, in the District of Columbia 68 mail contractors and special delivery messengers were eliminated from the enumeration in May, 1932; and in the service outside the District 35,800 star-route and other contractors, clerks in charge of mail-contract stations, clerks in third-class post offices, and special delivery messengers were eliminated in April, 1932, and 835 collaborators of the Department of Agriculture in June, 1932. In the table, in order to make the figures comparable for all the months shown, it was assumed that the number of these employees was the same in May, 1932, and June, 1931, as in the month they were dropped from the tabulation (actual figures not being available from the Civil Service Commission), and the data for those months have been revised in this table accordingly.

2 Not including the field service of the Post Office Department.

Employment in Building Construction in June, 1932

EMPLOYMENT in building construction decreased 1.8 per cent in June as compared with May. Earnings decreased 2.3 per cent during the same period. These per cents are based on information received from 10,349 firms engaged on building operations in 34 States and the District of Columbia.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CONSTRUCTION INDUSTRY IN IDENTICAL FIRMS, MAY AND JUNE, 1932

Locality	Num- ber of firms	Number o week endi		Per cent	Amount of week endi		Per cent
A) detail III.	report- ing	May 15	June 15	ofchange	May 15	June 15	ofchange
Alabama: Birmingham	72	420	494	+17.6	\$6, 381	\$7, 750	+21.
California: Los Angeles 1	26 29	1, 203 890	1, 337 790	+11.1 -11.2	24, 969 24, 487	29, 278 19, 205	+17.3 -21.6
Other reporting locali-	26	609	648	+6.4	14, 453	16, 437	+13.7
Colorado: Denver	194	756	782	+3.4	19, 073	21,060	+10.4
Bridgeport.	138	653	630	-3.5	17, 076	16, 096	-5.
Hartford.	240	1, 373	1, 199	-12.7	38, 091	32, 343	-15.1
New Haven	201	1,462	1, 497	+2.4	43, 414	44, 356	+2.
Delaware: Wilmington District of Columbia Florida:	97 561	1, 541 7, 577	1, 508 6, 891	-2.1 -9.1	33, 804 200, 053	35, 255 195, 012	+4.3
Jacksonville	48	284	261	-8.1	4, 380	3, 662	-16.4
Miami	78	654	518	-20.8	13, 713	9, 922	-27.
Georgia: Atlanta	125	1, 103	1, 135	+2.9	16, 382	16, 055	-2.0
Other reporting locali-	149	1,701	1,580	-7.1	49, 591	44, 930	-9.4
ties 1	69	649	661	+1.8	15,388	16, 337	+6.2
Fort Wayne	112	724	684	-5.5	15, 610	15, 069	-3. 5
Indianapolis	157	963	1,076	+11.7	21, 440	26, 398	+23.1
South Bend	38	297	241	-18.9	6, 312	4, 394	-30.4
Iowa: Des Moines	101	401	377	-6.0	9, 351	8,019	-14.2
Kansas; Wichita	57	224	214	-4.5	4, 205	3, 684	-12.4
Kentucky: Louisville	138	1,047	842	-19.6	22, 801	17, 317	-24.1
Louisiana: New Orleans	123	1, 251	1, 527	+22.1	23, 576	24, 255	+2.8
Maine: Portland	96 129	499 1, 401	1,448	-19.8 +3.4	12, 977 28, 932	10, 255 30, 702	-21.0 +6.1
Massachusetts: All report- ties localities 1	752	7, 133	6, 984	-2.1	210, 848	195, 599	-7.2
Michigan: Detroit	453	2, 723	2, 440	-10.4	66, 302	55, 622	-16.1
FlintGrand Rapids	36 106	125 566	125 535	-5.5	2, 361 9, 525	2, 263 10, 377	-4.2 +8.9
Duluth	54	258	200	-22.5	4, 756	3, 655	-23, 1
Minneapolis	234	1, 794	1,608	-10.4	45, 910	42, 211	-8, 1
St. Paul Missouri:	137	1, 246	1, 357	+8.9	31, 723	33, 749	+6.4
Kansas City 1	226	2,029	1, 935	-4.6	56, 908	53, 764	-5, 5
St. Louis	436	2, 112	2, 277	+7.8	62, 858	65, 625	+4.4
Nebraska: Omaha New York: New York City 1	138 246	880 2,602	932 4, 170	+5.9 +60.3	20, 947 75, 495	19, 581 139, 780	-6. 5 +85. 2
Other reporting localities 1	152	3, 457	3, 561	120	00 661	06 000	0.0
North Carolina: Charlotte	38	238	261	+3.0 +9.7	99, 661 3, 010	98, 900 3, 860	-0.8 +28.2
Akron	82	398	672	+68.8	7, 455	13, 443	+80.3
Cincinnati	513	3, 255	3, 277	+0.7	95, 022	93, 398	-1.7
Cleveland	445	2, 815	2, 432	-13.6	77, 346	67, 338	-12.9
Dayton	119	414	440	+6.3	9, 544	9, 009	-5. 6
Youngstown Oklahoma: Oklahoma City	99	178 489	218 436	+22.5	3, 689 8, 877	3, 867 7, 676	+4.8
Tulsa	55	207	204	-1.4	3, 610	3, 525	-13. 5 -2. 4
Oregon: PortlandPennsylvania:	193	1, 021	1, 107	+8.4	22, 916	23, 726	+3. 5
Erie 1	35	288	255	-11.5	7, 324	6, 839	-6.6
Philadelphia 1	587	5, 564	4, 986	-10.4	134, 434	120, 323	-10.5
Pittsburgh 1	273	1,969	1, 506	-23.5	57, 909	45, 119	-22.1
Reading-Lebanon 1	68	448	464	+3.6	8, 594	8, 746	+1.8
Other reporting locali-	41	219	176	-19.6	5, 223	3, 765	-27.9
ties 1	276	2, 205	2, 236	+1.4	46, 898	40, 951	-12.7
Rhode Island: Providence Cennessee:	222	1, 686	1, 595	-5.4	44, 191	41, 602	-5.9
Knoxville	30	348	312	-10.3	6, 094	4, 295	-29. 5
Memphis Nashville	95	535	565	+5.6	10, 932	11, 824	+8.2
~ 1 HOLL V LILU	76	873	794	-9.0	17, 780	15, 755	-11.4

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Data supplied by cooperating State bureaus.
 No change.
 Includes both Kansas City, Kans., and Kansas City, Mo.
 Includes Covington and Newport, Ky.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CON-STRUCTION INDUSTRY IN IDENTICAL FIRMS, MAY AND JUNE, 1932—Continued

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Locality	Num- ber of firms	Number of week endi		Percent	Amount o week endi		Percent
Locanty	report- ing	May 15	June 15	of change	May 15	June 15	of change
Texas:							
Dallas	138	906	728	-19.6	\$14, 307	\$12, 465	-12.9
Houston	120	749	839	+12.0	13, 705	14, 659	+7.0
San Antonio	89	542	564	+4.1	9, 739	8, 578	-11.9
Utah: Salt Lake City	86	533	443	-16.9	10, 958	9, 366	-14.5
Virginia:		-	707		,	-,	14.0
Norfolk-Portsmouth	91	584	566	-3.1	11, 909	10, 979	-7.8
Richmond	145	1,063	970	-8.7	21, 612	19, 990	-7.5
Washington:		-,		-	,	20,000	-1.0
Seattle	184	868	701	-19.2	21, 638	15, 652	-27.7
Spokane	45	148	161	+8.8	2, 616	3, 311	+26.6
Tacoma	71	189	135	-28.6	4, 689	2, 520	-46.3
West Virginia: Wheeling	49	256	259	+1.1	5, 354	5, 167	-3.5
Wisconsin: All reporting			200	1	0,002	0, 101	-0.0
localities 1	63	1, 455	1,415	-2.8	35, 427	31, 571	-10.9
Total, all localities	10, 349	83, 050	81, 581	-1.8	2, 076, 555	2, 028, 236	-2.3

¹ Data supplied by cooperating State bureaus.

Employment on Class I Steam Railroads in the United States

THE monthly trend of employment from January, 1923, to May, 1932, on Class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by the index numbers published in Table 1. These index numbers are constructed from monthly reports of the Interstate Commerce Commission, using the 12-month average for 1926 as 100.

TABLE 1.—INDEX OF EMPLOYMENT ON CLASS I STEAM RAILROADS IN THE UNITED STATES, JANUARY, 1923, TO MAY, 1932

[12-month average, 1920=100]												
1923	1924	1925	1926	1927	1928	1929	1930	1931	1932			
98. 3 98. 6	96. 9 97. 0	95. 6 95. 4	95. 8 96. 0	95. 5 95. 3	89. 3 89. 0	88. 2 88. 9	86. 3 85. 4	73. 7 72. 7	61. 5 60. 5 60. 5			
102. 0 105. 0	98. 9 99. 2	96. 6 97. 8	98. 9 100. 2	97. 4 99. 4	91. 7 94. 5	92. 2 94. 9	87. 0 88. 6	73. 5 73. 9	60. 6			
108. 2 109. 4	98. 1 99. 0	99. 4 99. 7	102. 9 102. 7	101. 0 99. 5	95. 6 95. 7	96. 6 97. 4	84. 7 83. 7	72. 4 71. 2				
107. 8 107. 3 105. 2	99. 7 100. 8 99. 0	99. 9 100. 7 99. 1	102. 8 103. 4 101. 2	99. 1 98. 9 95. 7	95. 3 95. 3 92. 9	96. 8 96. 9 93. 0	82. 2 80. 4 77. 0	69. 3 67. 7 64. 5				
99. 4	96. 0	97. 1	98. 2	91. 9	92.9	93.3	74. 9	62. 6 70. 6	1 60,			
	98. 3 98. 6 100. 5 102. 0 105. 0 107. 1 108. 2 109. 4 107. 8 107. 3 105. 2	98. 3 96. 9 98. 6 97. 0 100. 5 97. 4 102. 0 98. 9 105. 0 99. 2 107. 1 98. 0 108. 2 98. 1 109. 4 99. 0 107. 8 99. 7 107. 3 100. 8 105. 2 99. 0 99. 4 96. 0	98. 3 96. 9 95. 6 98. 6 97. 0 95. 4 100. 5 97. 4 95. 2 102. 0 98. 9 96. 6 105. 0 99. 2 97. 8 107. 1 98. 0 98. 6 108. 2 98. 1 99. 4 109. 4 99. 0 99. 7 107. 8 99. 7 99. 9 107. 3 100. 8 100. 7 105. 2 99. 0 99. 1 99. 4 96. 0 97. 1	98. 3 96. 9 95. 6 95. 8 98. 6 97. 0 96. 4 96. 0 100. 5 97. 4 95. 2 96. 7 102. 0 98. 9 96. 6 98. 9 105. 0 99. 2 97. 8 100. 2 107. 1 98. 0 98. 6 101. 6 108. 2 98. 1 99. 4 102. 9 109. 4 99. 0 99. 7 102. 8 107. 3 100. 8 100. 7 103. 4 105. 2 99. 0 99. 1 101. 2 99. 4 96. 0 97. 1 98. 2	98. 3 96. 9 95. 6 95. 8 95. 5 98. 6 97. 0 95. 4 96. 0 95. 3 100. 5 97. 4 95. 2 96. 7 95. 8 102. 0 98. 9 96. 6 98. 9 97. 4 105. 0 99. 2 97. 8 100. 2 99. 4 107. 1 98. 0 98. 6 101. 6 100. 9 108. 2 98. 1 99. 4 102. 9 101. 0 109. 4 99. 0 99. 7 102. 7 99. 5 107. 8 99. 7 99. 9 102. 8 99. 1 107. 3 100. 8 100. 7 103. 4 98. 9 105. 2 99. 0 99. 1 101. 2 95. 7 99. 4 96. 0 97. 1 98. 2 91. 9	1923 1924 1925 1926 1927 1928 98. 3 96. 9 95. 6 95. 8 95. 5 89. 3 98. 6 97. 0 95. 4 96. 0 95. 3 89. 9 100. 5 97. 4 95. 2 96. 7 95. 8 89. 9 102. 0 98. 9 96. 6 98. 9 97. 4 91. 7 105. 0 99. 2 97. 8 100. 2 99. 4 94. 5 107. 1 98. 0 98. 6 101. 6 100. 9 95. 9 108. 2 98. 1 99. 4 102. 9 101. 0 95. 6 109. 4 99. 0 99. 7 102. 7 99. 5 95. 7 107. 8 99. 7 99. 9 102. 8 99. 1 95. 3 107. 3 100. 8 100. 7 103. 4 98. 9 95. 3 105. 2 99. 0 99. 1 101. 2 95. 7 92. 9 99. 4 96. 0 97. 1 98. 2 91. 9 89. 7	1923 1924 1925 1926 1927 1928 1929 98. 3 96. 9 95. 6 95. 8 95. 5 89. 3 88. 2 98. 6 97. 0 95. 4 96. 0 95. 3 89. 0 88. 9 100. 5 97. 4 95. 2 96. 7 95. 8 89. 9 90. 1 102. 0 98. 9 96. 6 98. 9 97. 4 91. 7 92. 2 105. 0 99. 2 97. 8 100. 2 99. 4 94. 5 94. 9 107. 1 98. 0 98. 6 101. 6 100. 9 95. 9 96. 1 108. 2 98. 1 99. 4 102. 9 101. 0 95. 6 96. 6 96. 6 96. 9 95. 7 97. 4 107. 8 99. 7 99. 7 102. 7 99. 5 95. 7 97. 4 107. 8 99. 7 99. 9 102. 8 99. 1 95. 3 96. 8 107. 3 100. 8 100. 7 103. 4 98. 9 95. 3	1923 1924 1925 1926 1927 1928 1929 1930 98. 3 96. 9 95. 6 95. 8 95. 5 89. 3 88. 2 86. 3 98. 6 97. 0 95. 4 96. 0 95. 3 89. 0 88. 9 85. 4 100. 5 97. 4 95. 2 96. 7 95. 8 89. 9 90. 1 85. 5 102. 0 98. 9 96. 6 98. 9 97. 4 91. 7 92. 2 87. 0 105. 0 99. 2 97. 8 100. 2 99. 4 94. 5 94. 9 88. 6 107. 1 98. 0 98. 6 101. 6 100. 9 95. 9 96. 1 86. 5 108. 2 98. 1 99. 4 102. 9 101. 0 95. 6 96. 8 84. 7 109. 4 99. 0 99. 7 102. 7 99. 5 95. 7 97. 4 83. 7 107. 8 99. 7 99. 9 102. 8 99. 1 95. 3 96. 8 82. 2	98. 3 96. 9 95. 6 95. 8 95. 5 89. 3 88. 2 86. 3 73. 7 98. 6 97. 0 95. 4 96. 0 95. 3 89. 0 88. 9 85. 4 72. 7 100. 5 97. 4 95. 2 96. 7 95. 8 89. 9 90. 1 85. 5 72. 9 102. 0 98. 9 96. 6 98. 9 97. 4 91. 7 92. 2 87. 0 73. 5 105. 0 99. 2 97. 8 100. 2 99. 4 94. 5 94. 9 88. 6 73. 9 107. 1 98. 0 98. 6 101. 6 100. 9 95. 9 96. 1 86. 5 72. 8 108. 2 98. 1 99. 4 102. 9 101. 0 95. 6 96. 6 84. 7 72. 8 109. 4 99. 0 99. 7 102. 7 99. 5 95. 7 97. 4 83. 7 71. 2 107. 8 99. 7 99. 9 102. 8 99. 1 95. 3 96. 8 82. 2 69. 3 107. 3 100. 8 100. 7 103. 4 98. 9 95. 3 96. 9 80. 4 67. 7 105. 2 99. 0 99. 1 101. 2 95. 7 92. 9 93. 0 77. 0 64. 5 99. 4 96. 0 97. 1 98. 2 91. 9 89. 7 88. 8 74. 9 62. 6			

¹ Average for 5 months.

Table 2 shows the total number of employees on the 15th day each of May, 1931, and April and May, 1932, and the total pay roll for each of these months.

In these tabulations data for the occupational group reported as "executives, officials, and staff assistants" are omitted.

Table 2.—EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES, MAY, 1931, AND APRIL AND MAY, 1932

[From monthly reports of Interstate Commerce Commission. As data for only the more important occupations are shown separately, the group totals are not the sum of the items under the respective groups]

0		er of empliddle of mo		1	rotal earning	,s
Occupation	May 15,	Apr. 15,	May 15,	May, 1931	Apr., 1932	May, 1932
					1002	1002
Professional, clerical, and general	227, 838	194, 336	189, 976	\$33, 616, 285	\$26, 105, 758	\$25, 478, 57
Clerks	124, 284	103, 759	101, 265	17, 251, 169	13, 126, 370	12, 774, 72
Stenographers and typists	21, 219	18, 394	17, 953	2, 780, 258	2, 205, 811	2, 142, 72
Maintenance of way and structures	308, 317	219, 252	236, 757	27, 963, 239	17, 068, 340	17, 879, 65
Laborers, extra gang and work		1			-1, 000, 020	21,010,00
train	37, 276	15, 559	19, 975	2, 583, 532	843, 200	1, 069, 53
Laborers, tracks, and roadway	,	20,000	20,010	2,000,002	010, 200	1, 000, 000
	164, 113	121, 333	134, 026	11, 087, 960	0 010 000	
section.	355, 740				6, 612, 969	7, 175, 02
Maintenance of equipment and stores.		298, 650	289, 654	44, 599, 187	31, 136, 637	30, 092, 46
Carmen	74, 062	60, 793	59, 116	10, 385, 232	7, 044, 418	6, 816, 20
Machinists	46, 916	41, 287	40, 392	6, 825, 478	4, 936, 818	4, 818, 25
Skilled trades helpers	78, 128	64, 856	62, 580	8, 172, 276	5, 475, 841	5, 285, 49
Laborers (shops, engine houses,					-, -, -, -, -	0, 200, 10
power plants, and stores)	29, 073	24, 022	23, 485	2, 701, 841	1, 873, 274	1, 846, 79
Laborers, common (shops, en-	, -, -	1	20, 200	-, 102, 011	1,010,211	1,040,70
gine houses, power plants, and	2000 A.P. Sep					
	38, 039	31, 430	00 510	0 800 144	1 004 440	
stores)	90, 009	01, 400	30, 512	2, 783, 144	1, 881, 110	1, 794, 56
Transportation, other than train,	100 000	100 000	1			
engine, and yard	162, 283	138, 036	135, 992	20, 495, 068	15, 506, 609	15, 363, 07
Station agents	27, 768	26, 101	25, 962	4, 396, 355	3, 703, 665	3, 672, 34
Telegraphers, telephoners, and		-			, ,	0,012,01
towermen	19, 850	17, 373	17, 270	3, 127, 198	2, 401, 123	2, 424, 87
Truckers (stations, warehouses,			2.,2.0	1,,	-, 101, 120	4, 121, 01
and platforms)	24, 228	18, 755	18, 152	2, 198, 584	1, 469, 148	1 401 08
Crossing and bridge flagmen and	,	20, 100	10, 102	2, 100, 001	1, 400, 148	1, 401, 97
	18, 996	10 105	10 100	1 470 000	1 051 00.	
gatemen	10, 990	18, 125	18, 127	1, 472, 853	1, 254, 031	1, 253, 89
Transportation (yardmasters, switch	1 m 00 m		100000			
tenders, and hostlers)	17, 937	15, 049	14, 535	3, 498, 946	2, 492, 497	2, 431, 75
Transportation, train and engine	249, 568	207, 201	200, 818	48, 959, 036	34, 159, 125	33, 481, 54
Road conductors	28, 491	23, 772	23, 213	6, 761, 511	4, 832, 558	4, 798, 48
Road brakemen and flagmen	54, 871	45, 401	44, 418	9, 237, 374	6, 363, 046	6, 273, 44
Yard brakemen and yard helpers.	42, 227	35, 064	33, 691	6, 943, 799	4, 694, 863	
Road engineers and motormen	33, 455	28, 003	27, 467	8, 947, 758		4, 500, 48
Road firemen and helpers	34, 136				6, 360, 990	6, 281, 91
Road memen and neipers	04, 100	28, 947	28, 098	6, 485, 153	4, 562, 737	4, 502, 71
All employees	1, 321, 683	1, 072, 524	1, 067, 732	179, 131, 761	126, 468, 966	124, 727, 06:

RETAIL PRICES

Retail Prices of Food in June, 1932

THE following tables are compiled from simple averages of the actual selling prices received monthly by the Bureau of Labor Statistics of the United States Department of Labor from retail dealers.

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Table 1 shows for 51 cities of the United States retail prices and index numbers of food on June 15, 1931, and May 15 and June 15, 1932. The index numbers are based on the average prices for the year 1913 as 100.0.

TABLE 1.—AVERAGE RETAIL PRICES AND INDEX NUMBERS OF FOOD IN THE UNITED STATES, JUNE 15, 1931, AND MAY 15 AND JUNE 15, 1932

	4	Averag	e retail pr	ice on—		lex numb 1913=100.	
Article	Unit	June 15, 1931	May 15, 1932	June 15, 1932	June 15, 1931	May 15, 1932	June 15,
Sirloin steak	Pound	Cents 38.7	Cents 33, 0	Cents 32.8	152.4	129.9	129.
Round steak		33. 7	28. 4	28. 4	151. 1	127. 4	129.
Rib roast		28. 3	23. 8	23. 5	142.9	120. 2	118.
Chuck roast		20. 9	17.0	16. 9	130. 6	106.3	105.
Plate beef	do	13. 6	11.1	10.7	112.4	91.7	88.
Pork chops	do	29. 4	19.9	19.8	140.0	94.8	94.
Bacon, sliced	do	36. 9	23.9	23. 2	136. 7	88. 5	85.9
Ham, sliced	do	45. 9	35. 4	34. 9	170.6	131. 6	129.
Lamb, leg of	do	30. 6	25. 0	24.3	161. 9	132. 3	128.
Hens		31. 1	25. 7	24. 1	146. 0	120. 7	113.
Salmon, red, canned	do	33. 6	26. 9	25. 8			
Milk, fresh	Quart	12.0	10.8	10.8	134. 8	121. 3	121.
Milk, evaporated	14½-oz. can	8.3	7.3	6.8			
Oleomargarine (all butter substitutes).	Pounddo	30. 9 19. 0	25. 1 15. 1	24. 1 14. 9	80. 7	65. 5	62.1
Cheese	do	26. 5	22. 5	22.3	119.9	101.8	100.5
Lard	do	13. 0	8. 3	7.8	82.3	52. 5	49.
Vegetable lard substitute	do	23. 3	20. 7	19.6			
Eggs, strictly fresh	Dozen	25. 8	20. 0	20.8	74.8	58. 0	60,
Bread	Pound	7.6	6. 9	6. 9	135. 7	123. 2	123.
Flour	do	3.7	3. 2	3. 2	112. 1	97. 0	97.0
Corn meal	do	4. 5	3. 9	3.9	150. 0	130. 0	130.0
Rolled oats	do	8.0	7.6	7.6			
Corn flakes	8-oz. pkg	8. 9	8.6	8.6			
Wheat cereal	ACT 10 PK 12 PK	24. 0	22. 5	22.4			~ +
Macaroni	Pound	16. 9	15. 4	15. 4	********		
Rice		8.2	6.7	6.6	94. 3	77.0	75.9
Beans, navy	do	8.0	5. 1	5.0	141. 2	105 0	117.
PotatoesOnions	do	2. 4 4. 8	1. 8 6. 7	2.0 4.7	141. 2	105. 9	116.
Cabbage Pork and beans Corn, canned	do	4.0	6.6	5.4			
Pork and beans	16-oz can	8. 2	7.4	7. 2			
Corn. canned	No. 2 can	13. 3	10.8	10, 6			
Peas, canned	do	13. 9	12.9	12.8			
Peas, canned	do	10. 1	9.5				

Table 1.—AVERAGE RETAIL PRICES AND INDEX NUMBERS OF FOOD IN THE UNITED STATES, JUNE 15, 1931, AND MAY 15 AND JUNE 15, 1932—Continued

	of this ped	Averag	e retail pr	ice on—		lex numb 1913=100.	numbers 3=100.0)			
Article	Unit	June 15, 1931	May 15, 1932	June 15, 1932	June 15, 1931	May 15, 1932	June 15, 1932			
	E MARIE EN PUI	Cents	Cents	Cents						
Compa	Pound	5.6	4.9	4.9	101.8	89. 1	89, 1			
Sugar	do	74.4	71. 9	71.0	136. 8	132. 2	130, 5			
Coffee	do	33. 1	30.0	29.7	111.1	100. 7	99.7			
Prunes	do	11.8	9.4	9.4						
Raisins	do	11.1	11.5	11.5						
Rananas	Dozen	26. 1	23. 2	22. 9						
Oranges	do	37.6	33. 0	33. 5						
Weighted food index					118.3	101.3	100.			

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Table 2 shows the trend in the retail cost of three important groups of food commodities, viz, cereals, meats, and dairy products, by years for 1913, 1920, 1928, 1929, 1930, 1931, and by months for 1931 and 1932. The articles included in these groups will be found in the May issue of this publication.

TABLE 2.—INDEX NUMBERS OF RETAIL COST OF CEREALS, MEATS, AND DAIRY PRODUCTS, FOR THE UNITED STATES, BY YEARS, FOR 1913, 1920, 1928, 1929, 1930, AND BY MONTHS, 1931 AND 1932

[Average cost in 1913=100.0]

Year and month	Cereals	Meats	Dairy prod- ucts	Year and month	Cereals	Meats	Dairy prod- ucts
1913	100. 0	100.0	100. 0	1931—Continued			
1920	232. 1	185. 7	185. 1	August	132.0	149. 1	111.9
1928	167. 2	179. 2	150.0	September	130. 2	147.7	114.3
1929	164. 1	188.4	148.6	October	129.8	142. 7	117.0
1930	158.0	175.8	136. 5	November	129. 1	135. 4	114.4
1931: Average for year	135. 9	147.0	114.6	December	127.8	129.3	111.4
January	147.1	159. 5	123. 6	1932:			100.0
February	144.6	153. 4	120. 2	January	126. 4	123. 4	106. 5
March	142.4	152.5	120. 5	February	125.0	117. 3	102. 9
April	138. 9	151.4	116.5	March	124.3	118.9	101. 9
May	137.7	149.3	110.3	April	122. 9	118.6	97.4
June	136. 3	145.7	108.3	May	122.6	115. 3	94. 3
July	134. 3	147.8	109, 6	June	122. 5	113. 5	92. 6

Index Numbers of Retail Prices of Food in the United States

In Table 3 index numbers are given which show the changes in the retail prices of specified food articles, and for all articles combined by years, for 1913, 1920, 1928, 1929, 1930, 1931, and by months for 1931 and 1932. These index numbers are based on the average for the year 1913 as 100.0.

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TABLE 3.—INDEX NUMBERS OF RETAIL PRICES OF PRINCIPAL ARTICLES OF FOOD BY YEARS, 1913, 1920, 1928, 1929, 1930, 1931, AND BY MONTHS FOR 1931 AND 1932

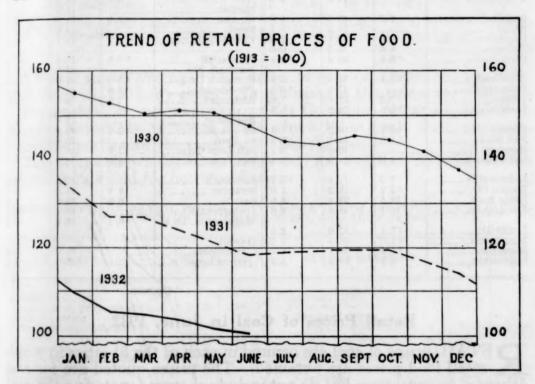
[Average for year 1913=100.0]

Year and month	Sirloin steak	Round steak	Rib roast	Chuck roast	Plate beef	Pork chops	Bacon	Ham	Lamb, leg of	Hens	Milk	Butte
1913	100.0	100.0	100.0	100. 0	100.0	100. 0	100. 0	100.0	100. 0	100.0	100.0	100.
1920	172.1	177.1	167. 7	163. 8	151. 2	201. 4	193. 7	206. 3	207.9	209. 9	187. 6	183.1
1928		188. 3	176.8	174. 4	157. 0	165. 7	163. 0	196. 7	208. 5	175. 6	159. 6	147.
1929		199.1	185. 4	186. 9	172.7	175. 7	161.1	204. 1	212. 2	186. 4	160.7	143.
1930		184.8	172. 7	170.0	155. 4	171.0	156. 7	198. 5	185. 7	166. 7	157.3	120.
1931	155. 1	154. 3	146. 0	134. 4	118. 2	138. 6	134.8	170.6	156. 1	145. 5	138. 2	92.
January		168. 2	159. 1	152. 5	138. 0	141. 9	148. 9	188. 1	166. 1	153. 5	149. 4	98.
February	161.4	161.0	154.0	145. 6	131. 4	131. 4	145. 2	183. 3	164. 6	148.8	146. 1	94.
March	158. 7	157.8	153. 0	141.9	128. 1	140.0	143.0	178.4	164.0	150. 2	144.9	97.
April	157. 5	156. 5	150.0	139. 4	124.8	141.4	141.1	175.5	165. 6	153. 1	141.6	91.
May	155. 5	154.7	147. 0	135. 6	119.8	143. 3	139.3	172.9	165. 1	148.8	138. 2	81.
June	152. 4	151.1	142.9	130.6	112.4	140.0	136. 7	170.6	161.9	146. 0	134.8	80.
July		154.3	142.9	130, 0	110.7	151. 4	137. 0	171.4	158. 7	144. 6	136.0	82.
August	155. 5	155. 2	143. 9	130. 0	109.9	158. 6	135. 6	171.4	156. 6	145. 1	136.0	89
September.		154.3	142.9	130. 6	111.6	153. 3	134. 1	169. 5	152.4	145. 1	136. 0	96.
October	152.0	150. 7	141. 4	129. 4	111.6	139. 5	127.0	164. 3	145. 5	140. 4	134. 8	104
November.	146. 9	144.8	137. 9	126. 3	109. 9	119.0	118.9	155. 4	138. 1	137. 1	134.8	97.
December	142.9	140. 4	134.8	122.5	108. 3	103. 8	112.2	147. 6	131. 7	134. 3	130. 3	95.
1932:	134.0	130. 3	101.0	1.00.0	100.0	100.0	110.0	141.0	101. 1	101. 0	100.0	90.
	137. 4	135. 0	129.8	115.6	101.7	99. 5	101.5	139.8	127. 5	131.0	129. 2	0.4
January		127. 4	123. 2	108. 1		91. 0	96. 7	136. 4	125.4	127. 2	129. 2	84.
February	130. 7 129. 9	127. 8	123. 2	108. 1	96. 7				120, 4			77.
March					95. 9	102. 4	95. 2	136. 1	131. 7	128. 2	127.0	77.
April	131.5	128.3	122.7	108.8	96. 7	102.4	92. 2	134. 9	135.4	124. 9	123.6	70.
		127.4	120. 2	106. 3	91. 7	94.8	88. 5	131.6	132.3	120.7	121.3	65.
May	129.9								100 0	***		0.0
June	129.1	127. 4	118. 7	105. 6	88. 4	94. 3 Corn	85. 9	129. 7 Pota-	128.6	113. 1	121.3	All at
	129, 1 Cheese	127. 4				94. 3		129. 7	128. 6 Sugar	113. 1 Tea		All at ticles
Year and month	Cheese	Lard 100.0	Eggs	105. 6 Bread 100. 0	88. 4 Flour	Corn meal	85. 9 Rice	Pota- toes	Sugar	Tea 100. 0	121. 3 Coffee	All a ticles
Year and month	Cheese 100. 0 188. 2	127. 4 Lard 100. 0 186. 7	Eggs 100. 0 197. 4	105. 6 Bread 100. 0 205. 4	88. 4 Flour 100. 0 245. 5	94. 3 Corn meal 100. 0 216. 7	Rice 100. 0 200. 0	Pota- toes 100. 0 370. 6	Sugar 100. 0 352. 7	Tea 100. 0 134. 7	121. 3 Coffee 100. 0 157. 7	All a ticles
Year and month	129, 1 Cheese 100, 0 188, 2 174, 2	127. 4 Lard 100. 0 186. 7 117. 7	118. 7 Eggs 100. 0 197. 4 134. 5	105. 6 Bread 100. 0 205. 4 162. 5	Flour 100. 0 245. 5 163. 6	94. 3 Corn meal 100. 0 216. 7 176. 7	Rice 100. 0 200. 0 114. 9	Pota- toes 100. 0 370. 6 158. 8	Sugar 100. 0 352. 7 129. 1	Tea 100. 0 134. 7 142. 3	121. 3 Coffee 100. 0 157. 7 165. 1	All a ticles 100 203 154
Year and month	129, 1 Cheese 100, 0 188, 2 174, 2 171, 9	127. 4 100. 0 186. 7 117. 7 115. 8	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0	105. 6 Bread 100. 0 205. 4 162. 5 160. 7	Flour 100. 0 245. 5 163. 6 154. 5	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7	Rice 100. 0 200. 0 114. 9 111. 5	Pota- toes 100. 0 370. 6 158. 8 188. 2	Sugar 100. 0 352. 7 129. 1 120. 0	Tea 100. 0 134. 7 142. 3 142. 6	100.0 157.7 165.1 164.8	All a ticles 100 203 154 156
Year and month 913	100. 0 188. 2 171. 9 158. 8	100. 0 186. 7 117. 7 115. 8 107. 6	Eggs 100. 0 197. 4 134. 5 142. 0 118. 8	105. 6 Bread 100. 0 205. 4 162. 5 160. 7 155. 4	Flour 100. 0 245. 5 163. 6 154. 5 142. 4	94. 3 Corn meal 100. 0 216. 7 176. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8	Sugar 100. 0 352. 7 129. 1 120. 0	Tea 100. 0 134. 7 142. 3 142. 6 142. 5	121. 3 Coffee 100. 0 157. 7 165. 1	All a ticles 100 203 154 156 147
Year and month 913	129, 1 Cheese 100, 0 188, 2 174, 2 171, 9	127. 4 100. 0 186. 7 117. 7 115. 8	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0	105. 6 Bread 100. 0 205. 4 162. 5 160. 7	Flour 100. 0 245. 5 163. 6 154. 5	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7	Rice 100. 0 200. 0 114. 9 111. 5	Pota- toes 100. 0 370. 6 158. 8 188. 2	Sugar 100. 0 352. 7 129. 1	Tea 100. 0 134. 7 142. 3 142. 6	100.0 157.7 165.1 164.8	All a ticles 100 203 154 156 147
Year and month 913 920 928 930 931	100. 0 188. 2 171. 9 158. 8 127. 1	100. 0 186. 7 117. 7 115. 8 107. 6	Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6	105. 6 Bread 100. 0 205. 4 162. 5 160. 7 155. 4	Flour 100. 0 245. 5 163. 6 154. 5 142. 4	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2	129. 7 Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6	Tea 100. 0 134. 7 142. 3 142. 6 142. 5	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4	100 203 154 156 147 121
Year and month 913 920 928 929 930 931 January January	100. 0 188. 2 171. 9 158. 8	100. 0 186. 7 117. 7 115. 8 107. 6 84. 2	Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6	105. 6 Bread 100. 0 205. 4 162. 5 160. 7 155. 4 135. 7	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0	100. 0 216. 7 176. 7 176. 7 153. 3 170. 0	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8	100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8	100 203 154 156 147 121 132
Year and month 913	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2	100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 153. 3	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4	All a ticles 1000 2033 1544 1566 1477 1211 1322 1277
Year and month 913 920 928 929 930 931 January February March	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1	127. 4 100. 0 186. 7 117. 7 117. 6 84. 2 99. 4 91. 8 89. 9	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 163. 3 170. 0 166. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 158. 8	100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 107. 3	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8	100 203 154 156 147 121 132 127 126
Year and month 913 920 928 929 930 931 January February March April	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 115. 2	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 163. 3 170. 0 166. 7 163. 3	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 102. 3 98. 9 96. 6	100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 158. 8 164. 7	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 107. 3 105. 5 103. 6	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1	100 203 154 156 147 121 132 127 126 124
Year and month 913 920 928 929 930 931 January February March April May	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 89. 9 85. 4	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9	Bread 100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 115. 2 112. 1	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 153. 3 153. 3	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4	100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 158. 8 164. 7	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 107. 3 105. 5 103. 6 101. 8	Tea 100. 0 134. 7 142. 3 142. 6 142. 6 141. 0 140. 6 139. 7 138. 2 136. 9	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4	100 203 154 156 147 121 132 127 126 124 121
Year and month 913	100. 0 188. 2 171. 9 158. 8 127. 1 145. 2 137. 1 132. 6 124. 0 119. 9	127. 4 100. 0 186. 0 186. 0 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 4 82. 3	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 74. 8	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 135. 7	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 115. 2 112. 1 112. 1	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 170. 0 166. 7 163. 3 153. 3 150. 0	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 164. 7 141. 2	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 139. 7 138. 2 136. 9	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4	100 203 154 156 147 121 132 127 126 124 121 118
Year and month 913	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 4 82. 3	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 74. 8 82. 9	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 137. 5 133. 9	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 115. 2 115. 2 112. 1 112. 1 1109. 2	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 163. 3 170. 0 166. 7 163. 3 153. 3 150. 0	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1	Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 164. 7 141. 2 135. 3	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2 136. 8 137. 3	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1	100 203 154 156 147 121 132 127 126 124 121 118 119
Year and month 913 920 928 929 930 931 January February March April May June July August	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 4 82. 3 82. 3 82. 3 81. 0	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 9 74. 8 82. 9 92. 5	100. 0 205. 4 162. 5 160. 7 155. 4 143. 7 146. 4 142. 9 141. 1 137. 5 137. 5 135. 7 133. 9 132. 1	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 112. 1 112. 1 1109. 2 103. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 166. 7 166. 7 163. 3 150. 0 150. 0	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1	129. 7 Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 136. 3 170. 6 158. 8 164. 7 164. 7 141. 2 135. 3 129. 4	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8	Tea 100. 0 134. 7 142. 3 142. 5 138. 6 141. 0 140. 6 130. 7 138. 2 136. 8 137. 3 138. 6	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7	100 203 154 156 147 121 132 127 126 124 121 118 119
Year and month 913 920 928 929 930 931 January February March April May June July August September	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 4 82. 3 82. 3 81. 0 79. 8	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 8 79. 4 8 82. 9 92. 5 98. 0	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 133. 7 133. 9 132. 1 130. 4	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 115. 2 112. 1 112. 1 109. 2 103. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 163. 3 150. 0 150. 0 150. 0 150. 0	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 1 92. 0	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 141. 2 135. 3 129. 4 117. 6	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8 103. 6 103. 6	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 140. 6 139. 7 138. 2 136. 8 137. 3 138. 6 139. 3	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7	100. 203. 154. 156. 147. 121. 132. 127. 126. 124. 121. 118. 119. 119.
Year and month 913	100. 0 188. 2 171. 9 158. 8 127. 1 145. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 4 82. 3 82. 3 81. 0 79. 8 78. 5	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 74. 8 82. 9 92. 5 98. 5 98. 0 109. 9	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 133. 9 132. 1 130. 4	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 112. 1 109. 2 100. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 170. 0 166. 7 163. 3 150. 0 150. 0 150. 0 150. 0 146. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 0 99. 7	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 141. 2 135. 3 129. 4 117. 6 105. 9	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8 103. 6 103. 6 101. 8	Tea 100. 0 134. 7 142. 3 142. 5 138. 6 141. 0 139. 7 138. 2 136. 9 137. 3 138. 6 139. 0	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 107. 7	All a ticles 1000 2033 154 156 147 121 132 127 126 124 121 118 119 119 119 119
Year and month 913	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 137. 1 132. 6 124. 0 119. 9 122. 2 122. 6 121. 3	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 4 82. 3 81. 0 79. 8 78. 5 77. 2	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 74. 8 82. 9 92. 5 98. 0 109. 9 105. 1	100. 0 205. 4 162. 5 160. 7 155. 4 136. 7 146. 4 142. 9 141. 1 137. 5 137. 5 137. 5 137. 5 138. 7 139. 4 130. 4 130. 4	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 112. 1 112. 1 1109. 2 113. 0 100. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 170. 0 166. 7 163. 3 150. 0 150. 0 150. 0 146. 7 140. 0	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 0 89. 7 86. 2	129. 7 Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 164. 2 135. 3 129. 4 117. 6 105. 9 100. 0	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 103. 6 101. 8 103. 6 101. 8 103. 6 101. 8	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2 136. 9 137. 3 138. 6 139. 0 139. 0 138. 1	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 108. 7 107. 7	All a ticles 100. 203. 154. 156. 147. 121. 132. 127. 126. 124. 121. 118. 119. 119. 119. 119. 119.
Year and month 913 920 928 929 930 931 January February March April May June July September October November December	100. 0 188. 2 171. 9 158. 8 127. 1 145. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 4 82. 3 82. 3 81. 0 79. 8 78. 5	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 74. 8 82. 9 92. 5 98. 5 98. 0 109. 9	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 133. 9 132. 1 130. 4	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 112. 1 109. 2 100. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 170. 0 166. 7 163. 3 150. 0 150. 0 150. 0 150. 0 146. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 0 99. 7	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 141. 2 135. 3 129. 4 117. 6 105. 9	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8 103. 6 103. 6 101. 8	Tea 100. 0 134. 7 142. 3 142. 5 138. 6 141. 0 139. 7 138. 2 136. 9 137. 3 138. 6 139. 0	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 107. 7	All a ticles 1000 203. 154. 156. 147. 121. 132. 127. 126. 124. 121. 118. 119. 119. 119. 119. 119. 119. 11
Year and month 913 920 928 929 930 931 January February March April May June July August September October November December 932:	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6 121. 3 118. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 88. 9 88. 9 88. 3 81. 0 79. 8 78. 5 77. 2 70. 9	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 8 82. 9 92. 5 109. 9 115. 1 111. 6	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 137. 5 137. 5 130. 4 130. 4 130. 4 128. 6	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 115. 2 112. 1 109. 2 100. 0 100. 0 100. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 150. 0 150. 0 150. 0 146. 7 140. 0 136. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 1 92. 0 89. 7 86. 2 85. 1	Pota- toes 100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 141. 2 135. 3 117. 6 105. 9 100. 0 105. 9	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2 136. 8 137. 3 138. 6 139. 3 139. 0 138. 1 138. 1	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 107. 7 106. 7	All a ticles 100, 203, 154, 156, 154, 156, 147, 121, 132, 127, 126, 124, 121, 118, 119, 119, 119, 119, 116, 114, 114, 114, 115, 116, 114, 116, 117, 117, 118, 119, 119, 119, 119, 119, 119, 119
Year and month 913	100. 0 188. 2 171. 9 158. 8 127. 1 145. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6 121. 3 118. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 89. 9 89. 9 85. 4 82. 3 82. 3 81. 0 79. 8 77. 2 70. 9 63. 9	Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 92. 5 98. 0 109. 9 115. 1 111. 6 86. 1	100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 135. 7 141. 1 137. 5 137. 5 133. 9 132. 1 130. 4 130. 4 128. 6	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 112. 1 112. 1 109. 2 103. 0 100. 0 100. 0 100. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 170. 0 166. 7 163. 3 150. 0 150. 0 150. 0 146. 7 140. 0 136. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 92. 0 89. 7 86. 2 85. 1 85. 1	100. 0 370. 6 158. 8 188. 2 211. 8 135. 3 170. 6 158. 8 164. 7 141. 2 135. 3 129. 4 117. 6 105. 9 100. 0	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 139. 7 138. 2 136. 9 137. 3 138. 6 139. 0 138. 1 138. 1 138. 1	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 107. 7 106. 7 105. 7	100 203 154 156 147 121 132 127 126 124 121 118 119 119 119 116 114
Year and month 913 920 928 929 930 931 January February March April May June July August September October November December 932: January February	100. 0 188. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6 121. 3 118. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 89. 9 85. 3 82. 3 81. 0 79. 8 77. 2 70. 9 63. 9 59. 5	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 92. 5 98. 0 115. 1 111. 6 86. 1 70. 1	100. 0 205. 4 162. 5 160. 7 155. 4 136. 7 146. 4 142. 9 141. 1 137. 5 137. 5 137. 5 138. 7 139. 4 130. 4 130. 4 128. 6	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 118. 2 112. 1 112. 1 109. 2 100. 0 100. 0 100. 0 100. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 150. 0 150. 0 150. 0 146. 7 140. 0 136. 7 143. 3 133. 3	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 94. 3 102. 3 102. 3 102. 3 98. 9 6. 6 95. 4 94. 3 1 93. 1 92. 0 89. 7 86. 2 85. 1 85. 1 85. 1 83. 9	129. 7 Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 156. 8 164. 7 164. 7 141. 2 135. 3 129. 4 117. 6 105. 9 100. 0 105. 9	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 103. 6 101. 8 101. 8 100. 0 98. 2 96. 4	Tea 100. 0 134. 7 142. 3 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2 136. 9 136. 8 137. 3 138. 6 139. 0 138. 1 138. 1	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 108. 7 107. 7 106. 7 105. 7	1000 2033 1544 1566 1477 1211 1322 127 126 124 121 118 119 119 119 119 119 110 114
Year and month 913 920 928 929 930 931 January February March April May June July August September October November December 932: January February January February	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6 121. 3 118. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 85. 4 82. 3 82. 3 82. 3 82. 3 81. 0 79. 8 78. 5 77. 2 70. 9 63. 9 59. 5 57. 6	118. 7 Eggs 100. 0 1197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 74. 8 82. 9 92. 5 98. 0 109. 9 115. 1 111. 6 86. 1 70. 1 61. 2	Bread 100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 133. 9 132. 1 130. 4 130. 4 128. 6 126. 8 125. 0	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 112. 1 112. 1 109. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 97. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 153. 3 170. 0 166. 7 163. 3 150. 0 150. 0 150. 0 146. 7 140. 0 136. 7 140. 0 136. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 3 102. 3 102. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 1 93. 1 85. 1 85. 1 85. 1 81. 6	129. 7 Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 136. 3 170. 6 158. 8 144. 7 141. 2 135. 3 129. 4 117. 6 105. 9 100. 0 105. 9 100. 0 100. 0	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2 136. 8 137. 3 139. 0 138. 1 138. 1 136. 2 135. 3 134. 7	100. 0 157. 7 165. 1 164. 8 136. 2 121. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 107. 7 106. 7 107. 7 106. 7	1000 2033 1544 1566 1477 1211 1322 1277 1266 1244 121 1188 1199 1199 1191 1191 1191 1191
Year and month 913 920 928 929 930 931 January February March April May June July August September October November December 932: January February	100. 0 188. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6 121. 3 118. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 88. 9 88. 9 88. 3 81. 0 79. 8 78. 5 77. 2 70. 9 63. 9 59. 5 57. 6 55. 1	118. 7 Eggs 100. 0 197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 882. 9 92. 5 109. 9 115. 1 111. 6 86. 1 70. 1 61. 2 58. 3	Bread 100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 136. 7 141. 1 137. 5 137. 5 137. 5 137. 5 130. 4 130. 4 130. 4 128. 6 126. 8 125. 0 125. 0 123. 2	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 118. 2 112. 1 112. 1 109. 2 100. 0 100. 0 100. 0 100. 0 100. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 163. 3 150. 0 150. 0 150. 0 146. 7 140. 0 136. 7 143. 3 133. 3	Rice 100. 0 200. 0 2114. 9 111. 5 109. 2 94. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 1 93. 1 85. 1 85. 1 85. 1 85. 1 85. 1 85. 1 85. 1 85. 1	129. 7 Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 156. 8 164. 7 164. 7 141. 2 135. 3 129. 4 117. 6 105. 9 100. 0 105. 9	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 101. 8 102. 6 103. 6 104. 8 105. 6 105. 6 106. 8 107. 8 107. 8 108. 6 109. 6 109. 7 10	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2 136. 8 137. 3 138. 6 139. 0 138. 1 138. 1 136. 2 135. 3 134. 7 133. 1	100. 0 157. 7 165. 1 164. 8 136. 2 113. 4 126. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 107. 7 106. 7 104. 4 104. 0 103. 4 102. 3	1000 2033 1544 1566 1477 1211 1322 1277 1266 1244 1211 1188 1199 119 119 119 119 119 119 119
Year and month 913 920 928 929 930 931 January February March April May June July August September October November December 932: January February January February	100. 0 188. 2 174. 2 171. 9 158. 8 127. 1 145. 2 141. 2 137. 1 132. 6 124. 0 119. 9 118. 6 119. 9 122. 2 122. 6 121. 3 118. 6	127. 4 100. 0 186. 7 117. 7 115. 8 107. 6 84. 2 99. 4 91. 8 89. 9 85. 4 82. 3 82. 3 82. 3 82. 3 81. 0 79. 8 78. 5 77. 2 70. 9 63. 9 59. 5 57. 6	118. 7 Eggs 100. 0 1197. 4 134. 5 142. 0 118. 8 91. 9 104. 6 78. 8 82. 6 79. 4 71. 9 74. 8 82. 9 92. 5 98. 0 109. 9 115. 1 111. 6 86. 1 70. 1 61. 2	Bread 100. 0 205. 4 162. 5 160. 7 155. 4 135. 7 146. 4 142. 9 141. 1 137. 5 137. 5 133. 9 132. 1 130. 4 130. 4 128. 6 126. 8 125. 0	Flour 100. 0 245. 5 163. 6 154. 5 142. 4 109. 0 121. 2 121. 2 118. 2 112. 1 112. 1 109. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 97. 0	94. 3 Corn meal 100. 0 216. 7 176. 7 176. 7 176. 7 153. 3 170. 0 166. 7 163. 3 150. 0 150. 0 150. 0 146. 7 140. 0 136. 7 140. 0 136. 7	Rice 100. 0 200. 0 114. 9 111. 5 109. 2 3 102. 3 102. 3 102. 3 98. 9 96. 6 95. 4 94. 3 93. 1 93. 1 93. 1 93. 1 85. 1 85. 1 85. 1 81. 6	129. 7 Potatoes 100. 0 370. 6 158. 8 188. 2 211. 8 136. 3 170. 6 158. 8 144. 7 141. 2 135. 3 129. 4 117. 6 105. 9 100. 0 105. 9 100. 0 100. 0	Sugar 100. 0 352. 7 129. 1 120. 0 112. 7 103. 6 107. 3 105. 5 103. 6 101. 8 101. 8 103. 6 101. 8 101. 8 100. 0 98. 2 96. 4	Tea 100. 0 134. 7 142. 3 142. 6 142. 5 138. 6 141. 0 140. 6 139. 7 138. 2 136. 8 137. 3 139. 0 138. 1 138. 1 136. 2 135. 3 134. 7	100. 0 157. 7 165. 1 164. 8 136. 2 121. 8 125. 2 121. 8 116. 1 112. 4 111. 1 109. 1 108. 7 107. 7 106. 7 107. 7 106. 7	1000 2033 1544 1566 1477 1211 1322 1277 1266 1244 121 1188 1199 1199 1191 1191 1191 1191

^{1 22} articles in 1913-1920; 42 articles in 1921-1932.

Comparison of Retail Food Costs in 51 Cities

Table 4 shows for 39 cities the percentage of increase or decrease in the retail cost of food in the United States in June, 1932, compared with the average cost in the year 1913, in June, 1931, and May, 1932. For 12 other cities comparisons are given for the 1-year and the 1-month periods; these cities have been scheduled by the bureau at different dates since 1913. The percentage changes are based on actual retail prices secured each month from retail dealers and on the average consumption of these articles in each city. The consumption figures which have been used since January, 1921, are given in the Labor Review for March, 1921 (p. 26). Those used for prior dates are given in the Labor Review for November, 1918, (pp. 94 and 95).



Effort has been made by the bureau each month to have all schedules for each city included in the average prices. For the month of June schedules were received from 99 per cent of the firms in the 51 cities from which retail prices of food are collected.

Out of about 1,213 food reports 16 were not received—1 each in Birmingham, Boston, Bridgeport, Cincinnati, Fall River, Newark, New Orleans, New York, Portland (Oreg.), and San Francisco; 2 each

in Minneapolis, Philadelphia, and St. Louis.

Out of about 350 bread reports one was missing in Jacksonville. A perfect record is shown for the following named cities: Atlanta, Baltimore, Buffalo, Butte, Charleston (S. C.), Chicago, Cleveland, Columbus, Dallas, Denver, Detroit, Houston, Indianapolis, Kansas City, Little Rock, Los Angeles, Louisville, Manchester, Memphis, Milwaukee, Mobile, New Haven, Norfolk, Omaha, Peoria, Pittsburgh, Portland (Me.), Providence, Richmond, Rochester, St. Paul, Salt Lake City, Savannah, Scranton, Seattle, Springfield (Ill.), and Washington.

TABLE 4.—PERCENTAGE CHANGE IN THE RETAIL COST OF FOOD IN JUNE, 1932, COM. PARED WITH THE COST IN MAY 1932. JUNE, 1931, AND WITH THE COST IN THE YEAR 1913, BY CITIES

City	June, 1932, com- pared with	ind av		Cita	June,	Percentage decrease June, 1932, com- pared with—		
Transfer the large	1913	June, 1931	May, 1932	City	1932, com- pared with 1913	June, 1931	May, 1932	
United States	0. 1	15. 5	1.1	Minneapolis	10.7	17. 9	0.8	
		10.4		Mobile		19.7	2.3	
Atlanta	0.1	16.4	0.6	Newark	4.8	12. 5	1.0	
Baltimore	2.5		10.2	New Haven		13. 1	1.3	
Birmingham	21.9		3. 2	New Orleans	14.2	14.6	3.	
Boston		16. 9	0. 5			40.0		
Bridgeport		14.4	1.3	New York	8.7	13. 0	1.	
n . a 1				Norfolk		13. 2	0.	
Buffalo	4.7	13. 5	1.8	Omaha	27.9	19. 2	2.	
Butte		17. 2	0.3	Peoria		14.6	0.	
Charleston, S. C	4.6	15. 1	1.8	Philadelphia	4.7	17. 1	0.	
Chicago	8.3	16. 5	0.6	100000000000000000000000000000000000000				
Cincinnati	2 0. 6	20. 9	10.4	Pittsburgh	2 2.8	18.8	1.	
				Portland, Me		12.6	1.	
Cleveland		15. 4	0.8	Portland, Oreg	259	14.0	3.	
Columbus		17.3	10.5	Providence	2.9	12.8	0.	
Dallas	27.6	17.6	5.8	Richmond	2.3	16. 3	0.	
Denver	2 6. 6	13. 9	1.3					
				Rochester		12.9	0.	
Detroit	24.4	19. 2	11.9	St. Louis	20.2	17.6	2.	
Fall River	21.6	14.1	2.2	St. Paul.		16. 9	1.	
Houston		16.8	0.1	Salt Lake City	2 12 9	18. 7	2	
Indianapolis	24.0	14.9	10.4	San Francisco		13. 2	2.	
					100			
Jacksonville	27.2	17.6	10.1	Savannah		19. 2	2	
Kansas City		18.3	1.0	Scranton	6.9	14.8	1.	
Little Rock	3 14.6	22.4	5.6	Seattle	0.8	13. 6	1.	
Los Angeles	2 10. 1	14.8	3.0	Springfield, Ill		15. 7	1.	
	20.2	3410	0.0	Washington, D. C.		16. 9	0	
Louisville	37.1	17.0	2.6			20.0	U	
Manchester		16. 5	1.6	Hawaii:				
Memphis	27.9	16.1	4.7	Honolulu		10. 2	1	
Milwaukee		15. 2	1.2	Other localities		10. 4	1	

1 Increase.

2 Decrease.

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Retail Prices of Coal in June, 1932

RETAIL prices of coal are secured in each of the 51 cities in which retail food prices are obtained. The prices quoted are for coal delivered to consumers but do not include charges for storing the coal in cellar or bins where an extra handling is necessary.

Average prices for the United States for bituminous coal and for stove and chestnut sizes of Pennsylvania anthracite are computed from the quotations received from retail dealers in all cities where these coals are sold for household use.

Table 1 shows the average prices of coal per ton of 2,000 pounds and index numbers for the United States on June 15, 1932, in comparison with the average prices on June 15, 1931, and May 15, 1932, together with the percentage change in the year and in the month.

(Ma.), Providence, Richmond, Rochester, St.

TABLE 1.—AVERAGE RETAIL PRICE PER 2,000 POUNDS OF COAL FOR THE UNITED STATES, AND PER CENT OF CHANGE ON JUNE 15, 1932, COMPARED WITH JUNE 15, 1931, AND MAY 15, 1932

Article	Averag	e retail pri	Per cent of increase (+) or decrease (-) June 15, 1932, compared with—		
	June 15, 1931	May 15, 1932	June 15, 1932	June 15, 1931	May 15, 1932
Pennsylvania anthracite:					
Average price per 2,000 pounds Index (1913=100.0) Chestnut—	\$14. 33 185. 5	\$13. 30 162. 6	\$13.37 173.1	-6.7	+0.5
Average price per 2,000 pounds	\$14. 31 180. 8	\$13. 11 165. 6	\$13. 17 166. 4	-8.0	+0.5
Average price per 2,000 pounds Index (1913=100.0)	\$8. 00 147. 3	\$7.60 139.9	\$7. 53 138. 6	-5.9	-0.9

Table 2 shows average retail prices of coal on December 15, 1931, and June 15, 1932, by cities. In addition to the prices for Pennsylvania anthracite, prices are shown for Colorado, Arkansas, and New Mexico anthracite in those cities where these coals form any considerable portion of the sales for household use.

The prices shown for bituminous coal are averages of prices of the

several kinds sold for household use.

Table 2.—AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSE-HOLD USE, ON DECEMBER 15, 1931, AND JUNE 15, 1932

City, and kind of coal	Dec. 15, 1931	June 15, 1932	City, and kind of coal	Dec. 15, 1931	June 15, 1932
Atlanta, Ga.:			Cincinnati, Ohio:		
Bituminous, prepared sizes	\$6. 53	\$5. 70	Bituminous-		
Baltimore, Md.: Pennsylvania anthracite—		13	Prepared sizes— High volatile	\$5. 75	\$4, 90
Stove	14.00	12, 21	Low volatile	8.00	6. 75
Chestnut	13, 75	11.75	Cleveland, Ohio:	8.00	0. 70
Bituminous, run of mine—	13. 75	11.75			
High volatile	7. 57	6, 96	Pennsylvania anthracite—	14.38	13, 56
Birmingham, Ala.:	1.01	0. 90	Stove	14. 31	13. 31
Bituminous, prepared sizes	6, 36	4.98	Rituminous—	14. 31	13. 31
Boston, Mass.:	0. 30	4. 95	Prepared sizes—		
		300	High volatile	6, 56	6. 17
Pennsylvania anthracite—	15.00	13. 25	Low volatile	9. 11	8. 32
Stove	15.00	13. 00	Columbus, Ohio:	9. 11	8. 32
Bridgeport, Conn.:	10.00	13.00	Bituminous—		
Pennsylvania anthracite—			Prepared sizes—		
Stove	14.13	13, 00	High volatile	5. 21	5, 06
Chartest	14. 13	13.00	Low volatile	7. 25	6. 13
ChestnutBuffalo, N. Y.:	14. 13	13.00	Dallas, Tex.:	1. 20	0, 13
Pennsylvania anthracite—		WWW.	Arkansas anthracite—Egg	7.5	14.00
Stove	13, 40	11. 88	Bituminous, prepared sizes	10, 83	10. 25
Chestnut	13, 40	11.63	Denver, Colo.:	10.00	10. 20
Butte, Mont.:	10. 10	22.00	Colorado anthracite—	3000	
Bituminous, prepared sizes	10.02	9, 73	Furnace, 1 and 2 mixed	14.75	14. 75
harleston, S. C.:	10.02	0.10	Stove, 3 and 5 mixed	14. 75	14. 75
Bituminous, prepared sizes	9.50	9, 50	Bituminous, prepared sizes	8. 16	7, 64
hicago, Ill.:		mustell	Detroit, Mich.:	0.20	
Pennsylvania anthracite-	2 2 3 110	description of	Pennsylvania anthracite		THE PARTY NAMED IN
Stove	16, 75	15, 30	Stove	14.50	13, 00
Chestnut	16, 75	15, 05	Chestnut	14. 50	12.79
Bituminous-	10	A 10.14	Bituminous—		
Prepared sizes—	-	100	Prepared sizes—		
High volatile	7.89	7. 53	High volatile	6. 32	6, 06
Low volatile	11.32	8. 97	Low volatile	7.96	6. 68
Run of mine-		12.00	Dan Marina		
Low volatile	7.48	6. 95		7. 13	6, 19

TABLE 2.—AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSE. HOLD USE, ON DECEMBER 15, 1931, AND JUNE 15, 1932—Continued

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City, and kind of coal	Dec. 15, 1931	June 15, 1932	City, and kind of coal	Dec. 15, 1931	June 1 1932
Fall River, Mass.:			Omaha, Nebr.:		-
Pennsylvania anthracite—			Bituminous, prepared sizes	\$8.80	\$8.
Stove	\$16.00	\$14.00	Peoria, Ill.:	40.00	φ3.1
Chestnut	16.00	13. 75	Bituminous, prepared sizes	5. 98	6.
Houston, Tex.:	11 00	0 40	Philadelphia, Pa.:		
Bituminous, prepared sizes	11.00	9. 40	Pennsylvania anthracite—		
Bituminous—			Stove	13.50	11.0
Prepared sizes—			Chestnut	13. 50	10.
High volatile	5, 68	4.84	Pennsylvania anthracite—		
Low volatile	8, 13	6. 71	Chestnut	14 00	12 (
Run of mine—		-	Bituminous, prepared sizes	4. 86	13.
Low volatile	6. 60	5. 70	Portland, Me.:	2.00	T.
acksonville, Fla.:			Pennsylvania anthracite—		
Bituminous, prepared sizes	10.00	9. 50	Stove	16. 80	15.
Kansas City, Mo.:			Chestnut	16.80	15.5
Arkansas anthracite—	11 90	10 01	Portland, Oreg.:	10.00	
Furnace	12.83	10. 81 12. 33	Bituminous, prepared sizes Providence, R. I.:	12. 29	11.5
Bituminous, prepared sizes	6. 12	5. 85	Pennsylvania anthracite—		
Little Rock, Ark.:	0.12	0. 00	Stove	1 15, 75	1 14 /
Arkansas anthracite—Egg	12.00	11. 75	Chestnut	1 15. 75	1 14.
Bituminous, prepared sizes	9. 22	8. 33	Richmond, Va.:	10. 10	10.
Los Angeles, Calif.:	10000		Pennsylvania anthracite—		
Bituminous, prepared sizes	16. 25	15. 25	Stove	14.50	12.
Louisville, Ky.:	0 0		Chestnut	14.50	12.
Bituminous—			Rituminous		
Prepared sizes— High volatile			Prepared sizes— High volatile		
High volatile	5. 24	4. 63	High volatile	8. 17	6.
Low volatile	8. 38	6. 75	Low volatile		7.
Manchester, N. H.: Pennsylvania anthracite—		M CHARLES	Run of mine— Low volatile	F 05	
Stove	16. 33	14. 50	Rochester, N. Y.:	7. 25	6,
Chestnut	16. 33	14. 50	Ponneylvania anthrogita-		
Memphis, Tenn.:	10.00	14. 00	Pennsylvania anthracite— Stove	14 29	12.
Bituminous, prepared sizes	6. 89	6. 73	Chestnut	14. 38	12.
Milwaukee, Wis.:			St. Louis, Mo.:	44.00	A day 1
Pennsylvania anthracite—			Pennsylvania anthracite—		
Stove	16. 05	14. 45	Stove	16.60	14.
Chestnut	16. 05	14. 20	Chestnut	16, 60	- 14.
Bituminous—			Bituminous, prepared sizes	5. 73	5.
Prepared sizes— High volatile	7 45	0.07	St. Paul, Minn.:		
Low volatile	7. 45 10. 01	6. 97	Pennsylvania anthracite—	10.00	
Ainneapolis, Minn.:	10.01	8. 78	Stove		16.
Pennsylvania anthracite—			Bituminous—	18. 05	16.
Stove	18, 05	16, 75	Prepared sizes—		
Chestnut	18. 05	16. 50	Prepared sizes— High volatile	9. 66	9.
Bituminous-		-5.50	Low volatile	12. 56	11.
Prepared sizes— High volatile	107		Salt Lake City, Utah:		
High volatile	9.83	9. 60	Bituminous, prepared sizes	7.63	7.
Low volatile	12. 54	11.87	San Francisco, Calif.:		
fobile, Ala.:	0.01		New Mexico anthracite—		
Bituminous, prepared sizes	8. 91	7.72	Cerillos egg	26.00	25.
lewark, N. J.:			Colorado anthracite—	05 50	~ .
Pennsylvania anthracite— Stove	13, 55	11. 75	Rituminous proposed sizes	25. 50	24.
Chestnut.	13. 55	11. 75	Bituminous, prepared sizes	17. 00	15.
few Haven, Conn.:	10.00	11. 30	Bituminous, prepared sizes	2 8, 87	28.
Pennsylvania anthracite—			Scranton, Pa.:	- 0.01	- 0.
Stove	14. 90	13. 65	Pennsylvania anthracite—		
Chestnut	14. 90	13. 65	Stove	10. 30	8.
ew Orleans, La.:		20.00	Chestnut	10. 28	8.
Bituminous, prepared sizes ew York, N. Y.:	9. 93	8. 64	Seattle, Wash.:		
ew York, N. Y.:			Bituminous, prepared sizes	10. 73	10.
Pennsylvania anthracite—	1000		Springfield, Ill.:	100000	
Stove	13. 83	11. 92	Bituminous, prepared sizes	4. 34	4.
Chestnut	13. 83	11. 67	Washington, D. C.:		
orfolk, Va.:			Pennsylvania anthracite—		
Pennsylvania anthracite—	14 **	10.11		3 15. 40	3 13,
Stove	14. 50	12.50		3 15. 40	3 13.
Chestnut	14. 50	12. 50	Bituminous—		
Bituminous—			Prepared sizes—	. 0 . 10	2.0
Prepared sizes— High volatile————————————————————————————————————	7.00	8 50	High volatile	8 8. 46	3 8.
Low volatile	9.00	6. 50 7. 50	Run of mine—	3 11. 04	3 9,
Run of mine-	5. 00	1.00	Mixed	3 7. 75	\$ 7.
Low volatile	7.00	6. 50	A744AV44	1.10	- 6.

1 The average price of coal delivered in bins is 50 cents higher than here shown. Practically all coal is delivered in bins.
 2 All coal sold in Savannah is weighed by the city. A charge of 10 cents per ton or half ton is made. This additional charge has been included in the above price.
 3 Per ton of 2,240 pounds.

Retail Prices of Gas in the United States

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THE net price per 1,000 cubic feet of gas for household use in each of 51 cities is published in June and December of each year. The average family consumption of manufactured gas is assumed to be 3,000 cubic feet per month. In cities where a service charge or a sliding scale is in operation, families using less than 3,000 cubic feet per month pay a somewhat higher rate than here shown, while those consuming more than this amount pay a lower rate. The figures here given are believed to represent quite closely the actual monthly cost of gas per 1,000 cubic feet to the average wage-earner's family.

From the prices quoted on manufactured gas, average net prices have been computed for all cities combined. Prices and index numbers showing the trend since April, 1913, are shown in Table 1.

The index numbers are based on the price in April, 1913.

TABLE 1.—AVERAGE PRICE PER 1,000 CUBIC FEET OF MANUFACTURED GAS AND INDEX NUMBER IN SPECIFIED MONTHS OF EACH YEAR 1913 AND 1928 TO 1932 FOR THE UNITED STATES

Date	Average net price	Index	Date	Average net price	Index	
1913: Apríl	\$0, 95 1, 21	100. 0 127. 4	1930: June December	\$1. 21 1, 18	127. 4 124. 2	
December	1. 22	128. 4 128. 4	1931: June December	1. 18 1. 15	124. 2 121. 1	
December	1. 21	127. 4	1932: June	1. 15	121. 1	

Table 2 shows the net price of manufactured gas in December, 1931, and June, 1932, by cities.

TABLE 2.—NET PRICE PER 1,000 CUBIC FEET OF MANUFACTURED GAS BASED ON A FAMILY CONSUMPTION OF 3,000 CUBIC FEET ON DECEMBER 15, 1931, AND JUNE 15, 1932, BY CITIES

City	Dec. 15, 1931	June 15, 1932	City	Dec. 15, 1931	June 15, 1932
BaltimoreBirmingham	\$0.85 .80	\$0. 85 . 80	Norfolk	\$1.32 .79	\$1.32
Birmingham Boston	1.16	1.16	Peoria	11.19	. 79
Charleston, S. C.	1, 45	1.45	Philadelphia	. 95	. 95
Cleveland	1, 25	1, 25	Portland, Me	1.42	1, 42
Detroit	.79	. 77	Portland, Oreg	1, 17	1. 17
Fall River	1.14	1. 14	Providence	1. 13	1. 13
Honolulu, T. H.	1.77	1.77	Richmond	1. 29	1. 29
Indianapolis	. 95	. 95	Rochester	1.00	1.00
Jacksonville	1.92	1. 92	St. Louis	1.10	1.10
Manchester	1.34	1.34	St. Paul	. 90	. 90
Milwaukee	.82	. 82	Savannah	1.45	1.48
Minneapolis	.96	. 96	Scranton	1.40	1.40
Newark	1.21	1. 21	Seattle	1. 43	1. 43
New Haven	1.13	1. 13	Springfield, Ill	1 1. 25	
New York	1. 24	1.23	Washington	. 95	. 93

¹ Price based on 17 therms which is the equivalent of 3,000 cubic feet of gas of a heating value of 565 B. t. u. per cubic foot.

Prices for natural gas and for manufactured and natural mixed gas in December, 1931, and June, 1932, are shown in Table 3 for those cities where it is in general use. These prices are based on an estimated average family consumption of 5,000 cubic feet per month.

TABLE 3.—NET PRICE PER 1,000 CUBIC FEET OF GAS BASED ON A FAMILY CONSUMP. TION OF 5,000 CUBIC FEET ON DECEMBER 15, 1931, AND JUNE 15, 1932, BY CITIES

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NATURAL GAS

City	Dec. 15, 1931	June 15, 1932	City	Dec. 15, 1931	June 15 1932
Atlanta	\$1.09	\$1.09	Los Angeles	\$0.84	\$0.
Butte	.70	. 70	Louisville	. 45	
Cincinnati		. 75	Memphis	. 95	
Cleveland	. 60	. 60	Mobile	1. 24	1.
Columbus	. 48	.48	New Orleans	. 95	
Dallas	.48	. 79	Peoria		11.
Denver	. 99	. 99	Pittsburgh	. 60	1
Houston	75	. 75	Salt Lake City	. 99	
Kansas City	. 95	, 95	San Francisco	. 97	
Little Rock	. 65	. 65	Springfield	.01	1 2

MANUFACTURED AND NATURAL GAS, MIXED

1	1			-	
Buffalo	\$0.65	\$0.65	Chicago	2 \$1.32	2 \$1, 32

¹ Price based on 50 therms which is the equivalent of 5,000 cubic feet of gas of a heating value of 1,000 B.

t. u. per cubic foot.

2 Price based on 40 therms which is the equivalent of 5,000 cubic feet of gas of a heating value of 800 B.

t. u. per cubic foot.

Retail Prices of Electricity in the United States

Explanation of Prices

THE following table shows for 51 cities the net rates per kilowatthour of electricity used for household purposes in December, 1931, and June, 1932. These rates are published in June and December of each year. For the cities having more than one tariff for domestic consumers the rates are shown for the schedule under which most of the residences are served.

Several cities have sliding scales based on a variable number of kilowatt-hours payable at each rate. The number of kilowatt-hours payable at each rate in these cities is determined for each customer according to the watts of installation, either in whole or in part, in the individual home. The number of watts so determined is called the customer's "demand."

In Baltimore the demand is the maximum normal rate of use of electricity in any half-hour period of time. It may be estimated or determined by the company from time to time according to the customer's normal use of electricity and may equal the total installation reduced to kilowatts.

In Buffalo the demand consists of two parts—lighting, 25 per cent of the total installation, but never less than 250 watts; and power, 2½ per cent of the capacity of any electric range, water heater, or other appliance of 1,000 watts or over and 25 per cent of the rated capacity of motors exceeding one-half horsepower but less than 1 horsepower. The installation is determined by inspection of premises.

NET PRICE PER KILOWATT-HOUR FOR ELECTRICITY FOR HOUSEHOLD USE ON DECEMBER 15, 1931, AND JUNE 15, 1932, FOR 51 CITIES

City	Measure of consumption, per month	Dec. 15, 1931	June 15, 1932
		Cents	Cents
Atlanta	Service charge	100.0	100.0
0	First 50 kilowatt-hours	5.0	5. 0
	Next 150 kilowatt-hours	3.0	3.0
Baltimore	First 20 hours' use of demand ¹	6.7	6. 7
9.4	primary rate—minimum 200 kilowatt-hours	3, 4	3, 4
Birmingham	First 100 kilowatt-hours		7.5
Boston	First 2 kilowatt-hours per 100 square feet of floor area	7.5	7.5
D000011-22-00-00-00-00-00-00-00-00-00-00-00-00-	Next 70 kilowatt-hours	5.0	5. 0
1.00	Excess	3.0	3.0
Bridgeport	First 400 kilowatt hours	2 5. 5	5. 3
Buffalo	First 60 hours' use of demand 1	5.0	5. 0
159	Next 120 hours' use of demand 1		4.0
D-44-	Excess First 25 kilowatt-hours	1. 5 8. 0	1. 5 8. 0
Butte	Next 25 kilowatt-hours	4.0	4.0
Charleston, S. C	First 100 kilowatt-hours	9.0	9.0
Chicago	First 3 kilowatt-hours per room.		7.0
CHIMPOTERS	Next 3 kilowatt-hours per room	5. 0	5. 0
1777	Excess	3.0	3.0
Cincinnati	Service charge per room	10.0	10.0
19.0	First 6 kilowatt-hours per room; minimum, 4 rooms		5. 0
	Excess	3.0	3.0
Cleveland:	Tilant 40 hillamett haven	- 0	- 0
Company A	First 40 kilowatt-hours		5. 0 4. 0
Company B	Next 200 kilowatt-hours	30. 0	30. 0
Company D.a	Next 600 kilowatt-hours		3.0
Columbus	First 50 kilowatt-hours		6.0
Dallas	First 800 kilowatt-hours		6.0
Denver	First 40 kilowatt-hours	17.0	6.0
	Next 30 kilowatt-hours	6.0	
	Excess	5.0	5. 0
Detroit	First 3 kilowatt-hours per active room; minimum, 3 rooms	9.0	9.0
The second of th	Next 50 kilowatt-hours	3.6	3. 6
Pall Dimon	Excess.	2.3 8.0	2. 3 8. 0
Fall River	First 25 kilowatt-hours Next 75 kilowatt-hours	5.0	5.0
Houston	First 3 kilowatt-hours per room; minimum, 4 rooms	7.0	7.0
	Next 100 kilowatt-hours	4.0	4.0
Indianapolis	First 50 kilowatt-hours	6.5	6. 3
	Next 50 kilowatt-hours	6.0	6.0
lacksonville	First 500 kilowatt-hours	7.0	7.0
Kansas City	First 5 kilowatt-hours per active room; minimum, 3 rooms		6. 5
	Next 5 kilowatt-hours per room		4.5
Little Rock	First 4 rooms or less. Rooms in excess of 4, 10 cents each addi-	2.5	2. 5
Little ROCK	tional.	50.0	50. 0
1	First 6 kilowatt-hours per room	7.0	7.0
of the colonial in	Next 6 kilowatt-hours per room	5.0	5. 0
Los Angles	First 35 kilowatt-hours	4.8	4.8
	Next 140 kilowatt-hours	2.5	2.5
Louisville	First 30 kilowatt-hours	7.6	7.6
Manchester	First step: 3 rooms, 15 kilowatt-hours; 4 rooms, 18 kilowatt-hours; 5 rooms, 21 kilowatt-hours; 6 rooms, 24 kilowatt-hours; 7 rooms, 27 kilowatt-hours; 8 rooms, 30 kilowatt-hours.	10.0	10. 0
	Next step: Number of kilowatt-hours equal to the first step	6.0	6.0
Memphis	First 6 kilowatt-hours per room	8.0	8.0
	Excess	5.0	5. 0
Milwaukee	First 9 kilowatt-hours for each of the first 6 active rooms and the first 7 kilowatt-hours for each active room in addition to the first 6.	6.2	6. 2
	Next kilowatt-hours up to 150	2.9	2.9
Minman all	Excess	1.9	1.9
Minneapolis	First 3 kilowatt-hours per active room; minimum, 2 rooms	8.6	7. 6
Mobile	Next 3 kilowatt-hours per active room	7. 1 80. 0	7. 1 80. 0
	more than 10 rooms counted.		
Newark	Next 45 kilowatt-hours First 20 kilowatt-hours	5.0	5.0
	Next 20 kilowatt-hours	9.0	9.0
New Haven	First 400 kilowatt-hours	25.5	5.3
New Orleans	Service charge	25. 0	25.0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	First 20 kilowatt-hours.	9.1	9.1
	Next 30 kilowatt-hours	7.8	

See footnotes at end of table.

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NET PRICE PER KILGWATT-HOUR FOR ELECTRICITY FOR HOUSEHOLD USE ON DECEMBER 15, 1931, AND JUNE 15, 1932, FOR 51 CITIES—Continued

City	Measure of consumption, per month	Dec. 15, 1931	June 1 1932
New York:		Cents	Centa
Company A	First 10 kilowatt-hours or less	100.0	Cents 100
- party Acres	Next 5 kilowatt-hours	6.0	
	Excess	5.0	
Company B	All current	9.5	
Company C	First 10 kilowatt-hours or less	100.0	10
Dompany U	Next 5 kilowatt-hours or less	100. 0 6. 0	10
14.7	Excess	5.0	
Norfolk	First 100 kilowatt-hours	7.5	
Norfolk	First 100 kilowatt-hours First 10 kilowatt-hours per room.	7.5	7
	First 10 kilowatt-hours per room	5. 5 3. 0	
Peoria	First 4 kilowatt-hours per active room	9.0	
	Next 4 kilowatt-hours per active room	9.0	1
	Next 4 kilowatt-hours per active room	6.0	(
Philadelphia	Excess	3.0	3
Philadelphia:	Minimum charge including use of first 10 bill		
Company A	Minimum charge including use of first 10 kilowatt-hours	75.0	75
Company	Next 38 kilowatt-hours	6.0	(
Company B	First 20 kilowatt-hours	9.0	
littehand	Next 20 kilowatt-hours		8
Pittsburgh	First 10 kilowatt-hours		8
	Next 20 kilowatt-hours		
Postland 34	Next 30 kilowatt-hours	4.0	4
Portland, Me	First 3 rooms, 15 kilowatt-hours; 4 rooms, 18 kilowatt-hours;	8.0	8
The second second	5 rooms, 21 kilowatt-hours; 6 rooms, 24 kilowatt-hours; 7		•
	rooms, 27 kilowatt-hours; 8 rooms, 30 kilowatt-hours.	1	•
	Next 3 rooms, 35 kilowatt-hours: 4 rooms, 42 kilowatt-hours:	5.0	5
Carried States	5 rooms, 49 kilowatt-hours; 6 rooms, 56 kilowatt-hours; 7		•
lord)	rooms, 63 kilowatt-hours; 8 rooms, 70 kilowatt-hours.	1	•
Portland, Oreg.:		1	•
Company A	First 30 kilowatt-hours	5.5	5
	Next 40 kilowatt-hours	3.0	3
	Excess	1.8	j
Company B	First 30 kilowatt-hours	5. 5	
	Next 40 kilowatt-hours	3.0	1
ASSESSMENT OF THE PARTY OF THE			
Providence	Excess Service charge including 3 kilowatt-hours	\$ 50.0	50
	Next 60 kilowatt-hours	3 6. 5	
Richmond	First 100 kilowatt-hours	7.5	7
Rochester	Service charge including first 12 kilowatt-hours	100.0	100
	Next 48 kilowatt-hours	5. 5	8
St. Louis:			
Company A	First 9 kilowatt-hours per active room		(
	Excess	2.4	2
Company B	First 4 rooms or less, 18 kilowatt-hours; 5 or 6 rooms, 27 kilowatt-hours; 7 or 8 rooms, 36 kilowatt-hours.	6.7	(
4 D	The same of the sa	2.4	1
St. Paul	First 3 kilowatt-hours per room, minimum 2 rooms	8.6	8
	Next 3 kilowatt-hours per room.	7.1	1
	Excess	2.9	1
Salt Lake City	Excess Service charge—consumption of 11 kilowatt-hours included	90.0	90
	Excess	7.0	1
San Francisco	Service charge	40.0	40
En His	Service charge	4.5	4
State of the same	Next 140 kilowatt-hours	3.5	
avannah	Service charge	100.0	100
	First 50 kilowatt-hours	6.0	10
cranton	Service charge	100.0	10
	All current	5.0	10
eattle:		0.0	
Company A	First 40 kilowatt-hours	5.5	
Company A	Next 200 kilowatt-hours		
Componer D	Next 200 kilowatt-hours	2.0	
Company B	First 40 kilowatt-hours Next 200 kilowatt-hours	5. 5 2. 0	
oringfield, Ill.:	2.75 St. 2015 St. 10 St	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Company A	First 30 kilowatt-hours	6.0	
	Next 30 kilowatt-hours	• 3.0	
The second second	Next 40 kilowatt-hours		
Company B	First 30 kilowatt-hours	6.0	
Part Deres	Next 30 kilowatt-hours	43.0	
	Next 30 kilowatt-nours		
ashington, D. C.	First 50 kilowatt-hours	14.2	*
, D. C.	Next 50 kilowatt-hours	2.2	
onelula II	Next 50 kilowatt-hours First 100 kilowatt-hours		
onolulu, Hawaii	Anna Anna - Anna Attanta da Santa da S	7.5	

For determination of demand see explanation of prices.
 All current.
 First 15 kilowatt-hours.

⁴ Next 30 kilowatt-hours. 5 Service charge. 6 Next 70 kilowatt-hours.

WHOLESALE PRICES

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Index Numbers of Wholesale Prices, 1913 to June, 1932

THE following table presents the index numbers of wholesale prices by groups of commodities, for specified years, and by months from January, 1931, to date.

INDEX NUMBERS OF WHOLESALE PRICES

[1926 = 100.0]

Year and month	Farm prod- ucts	Foods	Hides and leath- er prod- ucts	Tex- tile prod- ucts	Fuel and light- ing	Metals and metal prod- ucts	Build- ing mate- rials	Chemicals and drugs	House- fur- nish- ing goods	Mis- cel- lane- ous	All com- modi- ties
913920926	71. 5 150. 7 100. 0	64. 2 137. 4 100. 0	68. 1 171. 3 100. 0	57. 3 164. 8 100. 0	61. 3 163. 7 100. 0	90. 8 149. 4 100. 0	56. 7 150. 1 100. 0	80. 2 164. 7 100. 0	56. 3 141. 8 100. 0	93. 1 167. 5 100. 0	69. 154. 100.
927 928 929 930	99. 4 105. 9 104. 9 88. 3	96. 7 101. 0 99. 9 90. 5	107. 7 121. 4 109. 1 100. 0	95. 6 95. 5 90. 4 80. 3	88. 3 84. 3 83. 0 78. 5	96. 3 97. 0 100. 5 92. 1	94. 7 94. 1 95. 4 89. 9	96. 8 95. 6 94. 2 89. 1	97. 5 95. 1 94. 3 92. 7	91. 0 85. 4 82. 6 77. 7	95. 96. 95. 86.
931: 931: January	64. 8 73. 1	74. 6 80. 7	86. 1 88. 7	66. 3 71. 3	67. 5	84. 5 86. 9	79. 2 83. 8	79. 3 84. 5	84. 9 88. 3	69. 8 72. 2	73.
February March April May	70. 1 70. 6 70. 1 67. 1	78. 0 77. 6 76. 3 73. 8	86. 9 87. 6 87. 5 87. 6	70. 9 70. 0 68. 2 67. 4	72. 5 68. 3 65. 4 65. 3	86. 5 86. 4 85. 7 85. 0	82. 5 82. 5 81. 5 80. 0	83. 3 82. 9 81. 3 80. 5	88. 1 88. 0 87. 9 86. 8	71. 5 72. 0 71. 5 70. 5	76. 76. 74. 73.
JuneJulyAugust	65. 4 64. 9 63. 5	73. 3 74. 0 74. 6	88. 0 89. 4 88. 7	66. 6 66. 5 65. 5	62. 9 62. 9 66. 5	84. 4 84. 3 83. 9	79. 3 78. 1 77. 6	79. 4 78. 9 76. 9	86. 4 85. 7 84. 9	69. 7 69. 7 68. 3	72. 72. 72.
September October November	58. 8 58. 7	73. 7 73. 3 71. 0	85. 0 82. 5 81. 6	64. 5 63. 0 62. 2	67. 4 67. 8 69. 4	82. 8 82. 6	77. 0 76. 1 76. 2	76. 3 75. 6 76. 1	82. 7 81. 0 80. 9	68. 2 66. 6 68. 7	71. 70. 70.
December 932: January	55. 7 52. 8	69. 1	79.8	60. 8 59. 9	68.3	82. 2 81. 8 80. 9	75. 7 74. 8 73. 4	76. 1 75. 7 75. 5	78. 5 77. 7 77. 5	66. 8 65. 6 64. 7	68. 67. 66.
February March April May	50. 6 50. 2 49. 2 46. 6	62. 5 62. 3 61. 0 59. 3	78. 3 77. 3 75. 0 72. 5	59. 8 58. 7 57. 0 55. 6	68.3 67.9 70.2 70.7	80. 8 80. 3	73. 2 72. 5 71. 5	75. 3 74. 4 73. 6	77. 1 76. 3 74. 8	64. 7 64. 7 64. 4	66. 65. 64.
June	45. 7	58. 8	70.8	53. 9	71.6	79. 9	70. 8	73. 1	74.7	64. 2	6

INDEX NUMBERS OF SPECIFIED GROUPS OF COMMODITIES

[1926 = 100.0]

Group	June,	May,	June,
	1931	1932	1932
Raw materials	64. 7	53. 9	53.
	69. 3	58. 1	57.
	76. 0	70. 3	70.
	73. 4	68. 1	67.
	74. 1	70. 4	70.

Weekly Index Numbers of Wholesale Prices

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A SUMMARIZATION of the weekly index numbers for the 10 major groups of commodities and for all commodities combined as issued during the month of June will be found in the following statement:

INDEX NUMBERS OF WHOLESALE PRICES FOR THE WEEKS OF JUNE, 1932

[1926 = 100.0]

Group	Week ending—			
	June 4	June 11	June 18	June 25
All commodities Farm products Foods Hides and leather products Textile products Fuel and lighting Metals and metal products Building materials Chemicals and drugs	64. 0 45. 6 58. 6 72. 0 54. 8 71. 3 79. 9 71. 0 73. 2	63. 8 45. 8 58. 6 71. 5 54. 3 71. 3 79. 9 71. 0 73. 1	63. 7 45. 4 58. 5 71. 2 53. 6 71. 6 79. 9 70. 9 73. 0	64 46 59 70 53 71 79 70
House-furnishing goods	75. 8 64. 0	75. 6 64. 0	75. 7 64. 0	73

Index Numbers of Wholesale Prices, June, 1932

THE index number of wholesale commodity prices as computed by the Bureau of Labor Statistics of the United States Department of Labor shows a decrease from May, 1932, to June, 1932. This index number, which includes 784 commodities or price series weighted according to the importance of each article, and based on the average prices for the year 1926 as 100.0, averaged 63.9 for June as compared with 64.4 for May, showing a decrease of approximately three-fourths of 1 per cent between the two months. When compared with June, 1931, with an index number of 72.1, a decrease of about 11 per cent has been recorded in the 12 months.

In the group of farm products decreases in the average prices of grains, live poultry, dried beans, cotton, hay, fresh milk at Chicago, onions, tobacco, and wool, caused the group as a whole to decline 2 per cent from the previous month. Increases in the average prices of calves, cows, steers, hogs, sheep, lemons, and oranges were shown for June.

Among foods price decreases were reported for butter, cheese, evaporated and condensed milk, flour, canned corn and peas, fresh and cured beef, bacon, ham, dressed poultry, cocoa beans, and coffee. On the other hand, rice, lamb, mutton, fresh pork, veal, lard, raw and granulated sugar averaged higher than in the previous month. The group as a whole declined about 1 per cent in June when compared with May.

The hides and leather products group decreased 2½ per cent during the month, with all the subgroups sharing in the decline. Textile products as a whole decreased 3 per cent from May to June, due to marked declines for cotton goods, knit goods, silk and rayon, woolen and worsted goods, and other textile products. The subgroup of clothing declined slightly.

In the group of fuel and lighting materials increases in the prices of gas, electricity, Pennsylvania fuel oil, gasoline, and California crude petroleum more than offset decreases in the prices of anthracite

coal, bituminous coal, and coke. As a whole the group showed a net

advance of 1% per cent over the May level.

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Metals and metal products showed a slight downward tendency for June, due to decreases in iron and steel products and nonferrous metals. Increases were reported for plumbing and heating fixtures while agricultural implements and motor vehicles remained at the May level. In the group of building materials cement moved upward. and structural steel showed no change in average prices for the two months. Brick and tile, lumber, paint and paint materials, and other building materials continued their downward movement, forcing the group as a whole to decline approximately 1 per cent.

Chemicals, drugs and pharmaceuticals, and fertilizer materials showed further recession during June. Mixed fertilizers showed practically no change between the two months. The decrease of

the group as a whole was two-thirds of 1 per cent for June.

Both furniture and furnishings declined slightly from May to June. As a whole the house-furnishing goods group declined only

one-tenth of 1 per cent from the month before.

The group of miscellaneous commodities decreased one-third of 1 per cent between May and June due to declining prices of cattle feed, paper and pulp, and crude rubber, while for automobile tires and tubes the trend was upward. Other miscellaneous commodities

remained at the level of the previous month.

The June averages for all of the special groups of commodities were below those for May, ranging from a little less than one-half of 1 per cent in the case of finished products to 1% per cent in the case of raw materials. Between May and June price decreases took place in 296 instances, increases in 77 instances, while in 411 instances no change in price occurred.

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INDEX NUMBERS OF WHOLESALE PRICES BY GROUPS AND SUBGROUPS OF COM. MODITIES

[1926 = 100.0]

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Commodity groups and subgroups	June, 1931	May, 1932	June, 1932	Purchasing power of the dollar, June, 1932
All commodities	72. 1	64. 4	63, 9	\$1.56
Farm products	56, 0 61, 9	46. 6 42. 6 44. 4 49. 6	45. 7 37. 7 46. 7 48. 2	2. 18 2. 65 2. 14 2. 07
Foods	78. 8 74. 3 76. 4 71. 3 68. 5	59, 3 59, 6 68, 1 61, 5 56, 5	58. 8 57, 4 66. 8 62, 4 56. 0 55, 4	1. 70 1. 74 1. 49 1. 60 1. 78 1. 80
Hides and leather products	94. 6 65. 5 87. 8	72. 5 88. 4 35. 7 60. 6 97. 9	70. 8 87. 5 32. 5 58. 7 96. 4	1. 41 1. 14 3. 07 1. 70 1. 03
Textile products	76. 3 67. 6 59. 8 41. 9 68. 0 75. 5	55, 6 68, 2 52, 9 50, 5 29, 1 58, 3 67, 2	53. 9 67. 4 51. 0 49. 6 27. 5 55. 0 66. 7	1. 85 1. 48 1. 96 2. 01 3. 63 1. 81 1. 49
Fuel and lighting materials Anthracite coal Bituminous coal Coke Electricity Gas Petroleum products	88. 8 83. 2 81. 5 98. 6 101. 9	70. 7 85. 6 82. 0 77. 1 106. 1 103. 0 47. 2	71. 6 85. 3 81. 8 76. 9 (1) (1) (1) 48. 2	1. 38 1. 17 1. 22 1. 30
Metals and metal products Agricultural implements Iron and steel. Motor vehicles Nonferrous metals Plumbing and heating	94. 2 83. 5 94. 2 61. 2	80. 1 84. 9 80. 0 93. 8 48. 3 64. 4	79. 9 84. 9 79. 8 93. 8 47. 5 66. 7	1. 2 1. 1 1. 2 1. 0 2. 1 1. 4
Building materials Brick and tile Cement Lumber Paint and paint materials Plumbing and heating Structural steel Other building materials	83. 7 77. 7 68. 5 80. 0 86. 6	71. 5 77. 4 75. 0 59. 5 73. 9 64. 4 81. 7 78. 2	70. 8 76. 1 77. 1 57. 6 73. 3 66. 7 81. 7	1. 4 1. 3 1. 2 1. 7 1. 3 1. 4 1. 2 1. 2
Chemicals and drugs	62. 6 79. 8	73. 6 79. 1 58. 7 69. 4 69. 0	73. 1 78. 6 58. 3 68. 0 69. 0	1. 3 1. 2 1. 7 1. 4 1. 4
Housefurnishing goodsFurnishings Furniture	86. 4 83. 4 89. 8	74. 8 75. 5 74. 1	74. 7 75. 4 74. 0	1. 3 1. 3 1. 3
Miscellaneous	69. 7 46. 0 61. 1 80. 7	64. 4 39. 2 45. 9 76. 5 6. 7 84. 6	64. 2 39. 6 42. 1 76. 2 5. 8 84. 6	1. 5 2. 5 2. 3 1, 3 17. 2 1. 1
Raw materials Jemimanufactured articles Pinished products Nonagricultural commodities All commodities less farm products and foods	64. 7 69. 3 76. 0 73. 4 74. 1	53, 9 58, 1 70, 3 68, 1 70, 4	53, 2 57, 6 70, 0 67, 8 70, 1	1. 8 1. 7 1. 4 1. 4

¹ Data not yet available.

COST OF LIVING

Changes in the Cost of Living in the United States

A VERY appreciable reduction in the cost of living has accompanied the general industrial depression. The cost of living index number for the United States shows a decrease of 18.5 per cent from June, 1930, to June, 1932, 9.7 per cent from June, 1931, to June, 1932, and 6.9 per cent from December, 1931, to June, 1932. The June, 1932, cost of living index for the United States is the lowest recorded during the past 15 years, being 4.7 per cent lower than in 1917. Considering the peak of June, 1920, the June, 1932, figure is 37.3 per cent lower, and as compared with June, 1929, the decrease has been 20.3 per cent. These figures are based on studies now made semiannually by the United States Bureau of Labor Statistics. The information is obtained from retail merchants and dealers in 32 cities.

Prices on 42 articles of food are obtained monthly by mail from 15 to 25 grocers, meat dealers, bakers, and dairymen, who regularly report their prices, in each of the 32 cost-of-living cities. Fuel and light prices are also obtained from regular correspondents. The public utilities furnish gas and electricity figures while prices on coal

and wood are reported by 10 to 15 firms in each city.

All other data are secured by personal visits of representatives of the bureau. Four quotations are procured on each article in every city except New York where five are obtained. Prices of clothing for men and boys are taken on 32 items including suits, overcoats, hats, caps, overalls or work trousers, shoes, rubbers, repair of shoes, underwear, and furnishings. The clothing schedule for women and girls lists 38 items, including coats, dresses, shoes, rubbers, repair of shoes, kimonos, hosiery, and underclothing. Prices are taken on silk, wool, and cotton yard goods which are used in making dresses and aprons for women and girls. The 28 furniture and house-furnishing articles on which prices are obtained include living-room, dining-room, and bedroom furniture; rugs, linoleum, household linens, and bedding; baby carriages, sewing machines, stoves, brooms, refrigerators, and kitchen tables.

Real estate agencies furnish rentals on from 500 to 2,500 unfurnished houses and apartments in each city. The miscellaneous schedule includes street-car fares, motion pictures, newspapers, physicians' fees, medicine, hospital fees for wards, dentists' fees, spectacles, laundry, cleaning supplies, barber service, toilet articles and preparations, telephone rates for residential service, and tobacco prices. The average price of each item is weighted according to its importance in

the family budget.

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The food group represents the largest and most significant expenditure of the wage-earning family. In June, 1932, the food prices were 15.4 per cent lower than in June, 1931, and 12.4 per cent lower

than in December, 1931. The decreases for the 6-month period ending June, 1932, ranged from 5.1 per cent to 17.3 per cent in the 32 The present index of this group, 100.1 per cent, is only 0.1

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per cent higher than in 1913.

The index number for clothing in June, 1932, is 5.7 per cent less than 6 months ago, the decreases for the 32 cities ranging from 2.5 per cent to 9.4 per cent. The June, 1932, index is 12.5 per cent less than one year ago and compares closely with that for December. 1916.

In June, 1932, rents were 6.2 per cent lower than in December. 1931, the decreases for the 32 cities ranging from 0.6 per cent to 11.3 per cent, and 10.0 per cent lower than in June, 1931. Rents have been steadily moving downward since the peak which occurred in December, 1924, and the present index compares with that for Decem.

ber, 1919.

Fuel and light decreased 6.5 per cent from December, 1931, the decreases for the 32 cities ranging from 0.9 per cent to 14.3 per cent. The June, 1932, index decreased 5.0 per cent from June, 1931, and compares with that of December, 1919. The price of gas decreased in two cities, of electricity in three cities, and of both gas and electricity in one city.

For the year, June, 1931, to June, 1932, there was a drop of 13.3 per cent on the house furnishing goods group of items and for the past 6 months period the decrease was 8.2 per cent, the decreases for

the 32 cities ranging from 3.4 per cent to 13.9 per cent.

Only one city showed an increase for the miscellaneous items group, 1 per cent, which was caused largely by an increase in streetcar fares. For the United States this group declined 1.6 per cent for the 6 months period ending June, 1932, the decreases for the 31 cities ranging from 0.1 per cent to 4.8 per cent. The decrease was 2.2 per cent for the year, June, 1931, to June, 1932. Because of the nature of the items included in the miscellaneous items group, it does not show price changes as actively as do those groups which might be said to be included in the primary essentials of life.

Table 1 shows the index numbers which represent changes in the six groups of items entering into living costs in the United States

from 1913 to June, 1932.

TABLE 1.—INDEX NUMBERS SHOWING CHANGES IN COST OF GROUPS OF ITEMS ENTERING INTO COST OF LIVING IN THE UNITED STATES, 1913 TO JUNE, 1932

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			In	dex numb	ers		
Date	Food	Cloth- ing	Rent	Fuel and light	House- furnish- ing goods	Miscel- laneous	All
Average, 1913	100.0	100.0	100. 0	100.0	100.0	100, 0	100.0
December, 1914	105. 0	101.0	100. 0	101.0	104. 0	103. 0	103. 0
December 1915	105.0	104.7	101.5	101.0	110.6	107. 4	105. 1
December 1916	126.0	120.0	102. 3	108. 4	127.8	113.3	118. 3
December 1917	157. 0	149.1	100. 1	124.1	150.6	140.5	142.4
December, 1918	187. 0	205.3	109. 2	147. 9	213. 6	165. 8	174. 4
June, 1919	184.0	214.5	114.2	145.6	225, 1	1.3.2	177.3
December 1919	197. 0	268.7	125. 3	156.8	263. 5	190. 2	199. 3
Tuno 1920	219.0	287.5	134. 9	171.9	292.7	201. 4	216. 3
December, 1920	178.0	258.5	151. 1	194. 9	285. 4	208. 2	200. 4
May, 1921	144.7	222.6	159. 0	181.6	247. 7	208. 8	180. 4
September, 1921	153. 1	192.1	160. 1	180. 9	224.7	207. 8	177. 3
December, 1921	149.9	184. 4	161. 4	181.1	218. 0	206. 8	174. 3
March, 1922	138.7	175.5	160. 9	175.8	206, 2	203, 3	166. 9
June 1922	140.7	172.3	160. 9	174. 2	202. 9	201.5	166. 4
September, 1922	139.7	171.3	161.1	183. 6	202.9	201.1	166. 3
December, 1922	146. 6	171.5	161.9	186. 4	208. 2	200. 5	169. 5
March, 1923	141.9	174.4	162. 4	186, 2	217. 6	200. 3	168, 8
Tuna 1023	144. 3	174.9	163. 4	180. 6	222. 2	200. 3	169. 7
September, 1923	149.3	176.5	164. 4	181.3	222. 4	201.1	172. 1
December, 1923	150. 3	176. 3	166. 5	184. 0	222. 4	201.7	173. 2
March, 1924	143.7	175, 8	167. 0	182, 2	221.3	201.1	170, 4
June 1924	142.4	174.2	168. 0	177.3	216. 0	201.1	169. 1
Sentember, 1924	146.8	172.3	168. 0	179.1	214. 9	201. 1	170. 6
December, 1924	151.5	171.3	168. 2	180. 5	216.0	201.7	172. 5
June, 1925	155. 0	170.6	167. 4	176.5	214.3	202.7	173. 5
December, 1925	165. 5	169. 4	167. 1	186. 9	214.3	203. 5	177. 9
June, 1926	159.7	168. 2	165. 4	180.7	210. 4	203. 3	174. 8
December, 1926	161.8	166.7	164. 2	188. 3	207.7	203. 9	175. 6
June, 1927	158. 5	164.9	162.1	180. 8	205. 2	204. 5	173. 4
December, 1927	155. 9	162.9	160. 2	183. 2	204. 6	205. 1	172. 0
June, 1928	152.6	162.6	157.6	177. 2	201.1	205. 5	170. 0
December, 1928	155.8	161.9	155. 9	181.3	199. 7	207.1	171. 3
June, 1929	154.8	161.3	153.7	175. 2	198. 5	207.3	170. 2
December, 1929	158. 0	160. 5	151.9	178.7	197.7	207. 9	171. 4
June, 1930	147.9	158.9	149.6	172.8	195.7	208. 5	166. 6
December, 1930	137. 2	153. 0	146.5	175. 0	188. 3	208.1	160. 7
June, 1931	118.3	146.0	142.0	165. 4	177.0	206. 6	150. 3
December, 1931	114.3	135.5	136. 2	168.0	167. 1	205. 4	145. 8
June, 1932	100. 1	127.8	127.8	157.1	153. 4	202, 1	135, 7

Table 2 shows the per cent of decrease in the price of electricity in 32 cities since December, 1913. In the 6-month period from December, 1931, to June, 1932, this utility decreased 1.5 per cent, the decline from 1913 to June, 1932, being 21.0 per cent.

TABLE 2.—PER CENT OF DECREASE IN THE PRICE OF ELECTRICITY AT SPECIFIED PERIODS AS COMPARED WITH DECEMBER, 1913

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Date	Per cent of de- crease from De- cember, 1913	Date	Per cent of de- crease from De- cember, 1913	Date	Per cent of de- crease from De- cember, 1913
December, 1914	3.7 6.2 11.1 6.2 7.4 4.9 4.9 4.9	June, 1922 September, 1922 December, 1922 March, 1923 June, 1923 September, 1923 December, 1923 March, 1924 June, 1924 September, 1924 December, 1924 June, 1925 December, 1925	6. 2 6. 2 7. 4 7. 4 8. 6 8. 6 8. 6 8. 6 9. 9 9. 9	June, 1926. December, 1926 June, 1927 December, 1927 June, 1928 December, 1928 June, 1929 December, 1930 December, 1930 June, 1931 December, 1931 June, 1932	17.3 17.3 18.5

Table 3 shows the per cent of decrease in the cost of living in each of the 32 cities and in the United States from June, 1920, June, 1929, June, 1931, and December, 1931, to June, 1932. In the period between June, 1920, and June, 1932, the decreases in the 32 cities ranged from 33.0 to 44.5 per cent and averaged 37.3 per cent for the United States. In the period from June, 1929, to June, 1932, the decreases ranged from 16.9 per cent to 26.5 per cent and averaged 20.3 per cent for the United States. For the period from June, 1931, to June, 1932, the decreases ranged from 7.5 per cent to 13.0 per cent and averaged 9.7 per cent for the United States. Comparing the recent 6-month period ending June, 1932, the decreases ranged from 4.7 per cent to 9.0 per cent and for the United States averaged 6.9 per cent.

TABLE 3.—PER CENT OF DECREASE IN COST OF LIVING IN SPECIFIED CITIES FROM JUNE, 1920, JUNE, 1929, JUNE, 1931, AND DECEMBER, 1931, TO JUNE, 1932

W. Tite	Per	cent of d	ecrease fi	rom—		Per	cent of d	ecrease fr	rom-
City	June, 1920, to June, 1932	June, 1929, to June, 1932	June, 1931, to June, 1932	December, 1931, to June, 1932	City	June, 1920, to June, 1932	June, 1929, to June, 1932	June, 1931, to June, 1932	December, 1931, to June, 1932
AtlantaBaltimore	39. 7 34. 2	22. 1 18. 9	10. 0 9. 5	5.7 7.1	Mobile New Orleans	38. 5 34. 0	22. 3 20. 5	10.9	7. 6. 4.
Birmingham	41. 1 37. 1	25. 6 19. 8	11.4	7.5 8.0	New York	33.9	17. 5 18. 8	7. 8 9. 2	6
Buffalo	34.7	19. 1	8.6	4.7	Philadelphia	35. 1	19. 9	10.8	7
Chicago	38. 0	22.8	12.3	9.0	Pittsburgh	35. 2	21.6	10. 9	7
Cincinnati	33. 6	19.8	10. 4	7.7	Portland, Me	34. 1	16. 9	7. 6	
Cleveland	35. 2	18.8	7.6	4.9	Portland, Oreg.	38.8	18. 6	9, 2	1
Denver	37. 7	18. 9	9.7	6.6	Richmond	35. 1	18. 3	8.9	1
Detroit	44. 5	26. 5	13.0	7.8	St. Louis	35.7	20.6	9.9	3
Touston	38.9	22. 0	10. 7	8.2	San Francisco	33. 3	18. 3	8. 4	
ndianapolis	37.8	20. 6	9.3	5, 8	Savannah	40.3	20. 5	11. 2	(
acksonville	39. 2	21. 2	10.7	6.3	Scranton	33. 1	19.8	9. 4	
Cansas City	39. 4	17.6	11.1	7.5	Seattle	34. 3	17.6	9.3	
os Angeles	33. 0	20.0	8.8	6.8	Washington	35. 7	19. 1	9. 4	
femphis	36. 5	20. 5	10. 2	6.6	Average, United				
Minneapolis	33.7	17.6	9.4	6.9	States	37.3	20.3	9.7	

In the practice of economy, the bureau is now publishing only the initial figures for the individual cities, for the periods of high prices, and for the 6-month period beginning with June, 1928, through June, 1932. Data on prices for all intervening periods can be obtained from the Monthly Labor Review of August, 1931.

Table 4 shows the per cent of change in the cost of living for 19 cities for each of six groups of items from December, 1914, to June,

1932.

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TABLE 4.—CHANGES IN COST OF LIVING IN 19 CITIES, DECEMBER, 1914, TO JUNE, 1932

114 15	Per cen	t of increas	se over D	ecember,	1914, in e	xpenditur	e for—
City and date	Food	Cloth- ing	Rent	Fuel and light	House- furnish- ing goods	Miscel- laneous	All
Baltimore, Md.:						11111111	
December, 1915	14.1	2.7	10.2	0.5	5.6	11.4	11.4
June, 1920	110.9	191.3	41.6	57. 6	191.8	111.4	114. 3
December, 1920	75. 6	159.5	49.5	79.0	181. 9	112.9	96. 8
June, 1928	52. 9	68.1	66. 7	82.0	103. 2	118.7	73.7
December, 1928	51.9	68.3	65. 7	87.3	102.0	120.9	73. 9
June, 1929	53.8	67.5	65. 2	80.7	100. 4	119.8	73.8
December, 1929	56. 7	67.2	63. 4	86. 1	99. 4	120. 2	75. 1
June, 1930	47. 2	65.9	62.4	80.9	95. 6	127.0	71.6
December, 1930	36. 9	58.1	61.3	85.6	86.0	126.5	65. 8
June, 1931	18.7	51.6	59.8	78.7	72.1	125. 6	55. 8
December, 1931	14.4	41.9	56. 3	83. 9	66.8	124. 5	51.8
June, 1932	11.0	32.7	51.5	67.9	55.6	119.1	41.0
Boston, Mass.:				1	I TO BE M		
December, 1915		6.6	1.1	1.1	8.4	1.6	1.6
June, 1920	105.0	211.1	16. 2	83.6	233. 7	91.8	110. 7
December, 1920	74.4	192.7	25.8	106.0	226. 4	96.6	97.4
June, 1928	45.0	80. 2	52. 2	90.4	123. 1	90. 2	64. 8
December, 1928	50. 5	80.4	51.6	96. 7	118.4	94.4	68, 2
June, 1929	47.1	79.0	50. 7	87.7	118. 4	92.1	65. 4
December, 1929		79.0	49. 2	94.3	118.0	92.9	68. 4
June, 1930	43.7	78.3	47.1	88.7	113.6	92.5	63. 1
December, 1930		72.6	44.7	95. 7	107. 6	92.3	59. 2
June, 1931		66.7	41.8	85.3	97.4	92.3	47.1
December, 1931	12.8	58.0	38. 4	86.0	89. 9	91.3	44. 1
June, 1932	14.8	49.5	35. 1	70.7	72.6	87.9	32. 6
Buffalo, N. Y.:		00					
December, 1915		8.9	1. 2	3.2	7. 1	3.5	3. 5
June, 1920	115. 7	210.6	46. 6	69. 8	199. 7	101. 9	121. 8
December, 1920		168. 7	48. 5	74.9	189. 2	107. 4	101. 7
June, 1928.		71.7	72.7	126. 7	105. 4	117. 8	78. 7
December, 1928		72.4	69. 4	128. 5	104. 2	117. 8	79. 6
June, 1929.	54. 6	71. 2	67. 0	123. 2	104. 4	118.9	78. 8
December, 1929		71.0	66. 5	127. 0	104. 2	119. 1	80. (
June, 1930.	47. 2	70.0	65. 0		105. 0	120. 4	76. (
December, 1930		62. 0 52. 3	62.5	126. 7 121. 3	96. 4 84. 0	118.4	69. 4 58. 3
June, 1931	16.0	45. 4	56. 5 50. 4	124. 8	72.4	114. 2	51. 8
December, 1931	6.7	37. 0	39. 7	113. 8	56. 9	110.8	44.7
June, 1932 Chicago, III.:	1.3	01.0	08. 1	110. 0	30. 9	110.0	33.
December, 1915	2.7	7.5	1.1	1.9	5.9	3.0	3.0
June, 1920	120.0	205. 3	35. 1	62.4	215. 9	87. 5	114.
June, 1920 December, 1920		158. 6	48. 9	83. 5	205. 8	96. 5	93. 3
June, 1928		53. 3	86. 8	51, 2	96. 0	98. 5	71.
December, 1928		52.1	83. 6	56. 5	97. 2	101. 7	73.
June, 1929	63. 0	51. 5	80. 3	50. 7	97. 4	101. 7	72.
June, 1929 December, 1929	67. 3	49. 2	77. 2	56. 7	97. 0	102. 9	73.
		47.7	75. 1	51. 5	92.1	104. 7	69.
June, 1930. December, 1930.		37. 2	71. 1	54. 8	82.7	104. 5	62.
		30. 3	64. 4	49. 5	67. 7	103. 3	51.
		19. 5	56. 5	52.5	57.8	98.6	46.
December, 1931	20. 1						
June, 1932	5.4	11.0	38. 8	42.1	37. 1	94. 2	33.

¹ Decrease.

Table 4.—CHANGES IN COST OF LIVING IN 19 CITIES, DECEMBER, 1914, TO $_{
m JUNE,}$

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No

Ale all control and the	Per cent	of increas	se over I	December,	1914, in e	xpenditur	e for-
City and date	To me				House-		
City and date	Food	Cloth-	Rent	Fuel and		Miscel-	All
beamber, 1914, to June.	F 000	ing	Rent	light	ing goods	laneous	items
Cleveland, Ohio:							
December, 1915	1.4	2.0	0.1	0.3	4.7	1.4	1.4
June, 1920 December, 1920	118. 7 71. 7	185, 1 156, 0	47. 3 80. 0	90.3	186. 5 176. 8	117. 9 134. 0	120, 3
June, 1928	50, 6	65.7	61. 8	161. 3	90, 2	118.1	107, 3 76, 3
December, 1928	48. 5	63. 9	60. 5	163.7	89. 2	119.0	75. 4
June, 1929	50.6	63. 9	59. 5	160. 5	89. 4	117. 9	75.
December, 1929 June, 1930	47. 0 42. 0	63. 2 61. 6	58, 9 56, 4	163. 1 160. 2	88. 8 87. 7	118.3 125,3	74.3
December, 1930	29, 5	52, 1	55. 3	162. 5	75. 5	125, 3	73. 3
June, 1931	9.6	41.8	48.6	158.0	64. 4	118.6	66, 2 54, 4
December, 1931	4.1	36, 8	41.0	159. 5	58.3	119.0	50, (
June, 1932	1 6. 4	30. 2	29. 9	156. 4	41.6	121. 2	42.
December, 1915	4.1	2.3	2.1	1.6	8.7	3, 5	9 1
June, 1920	132.0	208. 8	68. 8	74. 9	206. 7	141.3	3, 5 136, (
December, 1920	75. 6	176. 1	108. 1	104. 5	184. 0	144. 0	118.
June, 1928	53. 5	64. 3	79. 1	73. 2	81. 4	128. 8	76.4
December, 1928 June, 1929	55. 7 59. 2	62. 5 62. 5	78. 2 77. 3	77. 0 72. 8	81. 2 81. 2	131, 1 130, 4	77.
December, 1929	57. 9	61. 7	77.8	77. 5	79. 4	130. 4	78. 1 77. 1
June, 1930	47.6	59.6	73. 2	67. 2	76. 7	131. 1	72.
December, 1930	32.6	50. 2	60.0	71.0	66. 5	125. 1	61,
June, 1931	14.7	44.0	45. 4	61.4	58.8	123. 7	50,
December, 1931 June, 1932	17.7	33. 1 26. 8	31. 0 17. 8	59.3 46.2	49.3 32.7	118. 1 116. 1	41. 30.
Houston, Tex.:	- 1.1	20.0	11.0	10. 2	34. 1	110.1	30,
December, 1915	11.0	2.7	123	1.9	6. 1	1.3	1.
June, 1920	107. 5	211.3	25. 3	55. 1	213. 9	90. 4	112.
December, 1920	83. 2 45. 6	187. 0 85. 8	35. 1 30. 4	74. 2 29. 2	208. 2 132. 0	103. 9 89. 7	104.
December, 1928		86. 4	30. 1	33.6	131. 1	89. 3	66.
June, 1929	51.1	84.7	27.5	29. 1	129.0	92.1	66.
December, 1929		84.1	27. 1	31.8	129. 5	92. 5	68.
June, 1930	43. 0 32. 8	82. 8 65. 6	25. 7 23. 8	25. 3 24. 0	127. 2 113. 8	92. 5 92. 3	62, 54,
June, 1931	11. 2	63.8	20. 0	18. 9	110. 0	92. 3	45.
December, 1931	9. 5	52. 5	12.3	16.8	99. 1	92. 9	41.
June, 1932	17.5	42.0	1.2	11.8	87.0	88. 5	29.
Jacksonville, Fla.:	1.3	10.5	100	(9)	15.1	1.0	,
December, 1915. June, 1920.	90.1	10. 5 234. 0	1 6. 9 28. 9	72.6	15. 1 224. 2	1. 3 102. 8	1. 116.
December, 1920	65. 6	209. 3	34.1	92.6	222. 3	105. 6	106.
June, 1928	36. 4	85. 0	32.3	74.4	119. 2	105. 1	68.
December, 1928		84.6	27.4	78.9	119.6	105. 1	69.
December, 1929	37. 4 40. 8	83. 9 82. 4	19. 8 13. 2	77.1	117. 8 113. 9	105. 1 101. 0	66. 65.
June, 1930.	31. 9	80. 4	3. 2	75. 0 70. 6	110. 5	101. 0	61.
December, 1930	28. 4	71.9	1 1. 5	66. 3	103. 3	101. 0	56.
June, 1931	8.4	65. 4	15.9	64.0	89. 9	100. 2	47.
December, 1931	1.4	49.7	19.7	61.0	81.7	97. 6	40.
June, 1932 Los Angeles, Calif.:	1 10. 7	41.3	1 15.8	53. 4	62. 1	92. 9	31.
December, 1915	14.1	2.8	12.7	.4	6.3	11.9	11.
June, 1920.	90.8	184. 5	42.6	53. 5	202. 2	86. 6	101.
December, 1920	62. 7	166. 6	71.4		202. 2	100.6	96.
June, 1928	34. 9	71.4	54. 1		110.7	107. 2	67. 71.
December, 1928	44.7	70. 5 69. 3	49. 8 45. 2	51. 5 50. 6	108. 4 106. 5	110. 9 111. 1	68.
December, 1929	40. 9	69. 3	43. 7	51.4	105. 9	111.7	68.
June, 1930	30. 9	68. 1	39. 8	45. 6	103. 6	110. 2	63.
December, 1930	21.0	60. 2	36. 9	47.6	93. 0	110. 2	58. 48.
June, 1931 December, 1931	3. 1 5. 7	50. 7 40. 0	31. 3 25. 7	47.0	77. 8 71. 2	107. 7 103. 5	48.
DOCUMENT, 1891	0. 1	30.0	40. 1	10.0	11.4	100.0	35.

¹ Decrease

² No change.

TABLE 4.—CHANGES IN COST OF LIVING IN 19 CITIES, DECEMBER, 1914, TO JUNE, 1932—Continued

	Per cen	t of increa	se over	December	, 1914, in	expenditu	re for-
City and date	Food	Cloth- ing	Rent	Fuel and light	House- furnish- ing goods	Miscel- laneous	All items
Iobile, Ala.							and the second
December, 1915	11.0	2.0	11.9	(2)	4.1	10.4	10.
June, 1920	110. 5 73. 5	137. 4 122. 2	34. 6 53. 6	86. 3 122. 3	177. 9 175. 4	100. 3 100. 7	107. 93.
June, 1928	45. 4	47.5	41. 0	90. 0	93. 3	107.3	63.
December, 1928	49.6	48.1	41.6	92.1	92.3	108.3	65.
June, 1929	47.5	47. 2	41.0	84. 0	87.9	108. 1	64.
December, 1929	49.0	47. 2	40.6	85, 8	87.3	108.3	64.
June, 1930 December, 1930	39.6	46.8	38. 9	81. 2	85. 6	108.1	60.
June, 1931	33. 0 12. 1	40. 0 34. 1	36. 3 32. 5	³ 58, 6 49, 6	73. 5 57. 5	107. 5 105. 4	54. 43.
December, 1931	7.4	26. 2	24. 6	49.7	50.6	102.3	38.
June, 1932	1 10.0	18.9	16.3	42.1	43.5	98.1	27.
ew York, N. Y.: December, 1915	1.3	4.8	1.1	1.1	8. 4	2.0	2.
June, 1920	105. 3	241. 4	32. 4	60. 1	205. 1	111.9	119.
December, 1920	73.5	201.8	38. 1	87. 5	185. 9	116.3	101.
June, 1928	47.5	90.3	69. 3	94. 4	97.8	118.6	74.
December, 1928	53. 0	88.4	68. 6	96.3	96.4	118.8	76.
June, 1929 December, 1929	50, 6 54, 9	87. 8 85. 9	67. 6 66. 1	92. 0 95. 1	96. 2 95. 4	121. 4 122. 9	75. 77.
June, 1930		85, 5	65. 1	85. 7	90. 5	123. 3	71.
December, 1930	35. 9	82. 2	63. 1	90.9	85. 5	123. 7	67.
June, 1931	19.6	67. 6	61. 5	86. 3	62. 5	123. 5	57.
December, 1931	14.4	56. 5	58. 4	90. 4	52.3	120.6	52.
June, 1932	4.1	51.0	53. 0	76. 5	44. 7	118.6	44.
prfolk, Va.: December, 1915	0	0		(2)			
June, 1920.	107.6	176.5	70.8	110.6	165. 0	108.4	122.
December, 1920	76.3	153.6	90.8	128. 9	160. 5	106. 3	109.
June, 1928	50. 2	71.6	41.7	95.6	85.7	114.6	71.
December, 1928	55.0	71.8	39.6	100.3	86.1	118. 2	74.
June, 1929	51.9	71.3	38.8	94.3	85. 2	118.0	72.
December, 1929 June, 1930	55. 8 43. 3	70. 4 68, 7	37. 1 36. 0	92. 7 87. 3	83. 0 80. 4	119.3 118.6	73. 67.
December, 1930	36. 7	66. 2	33, 3	97.0	73. 5	119.0	64.
June, 1931	15.0	57.7	32.6	83. 6	63, 8	119.0	54.
December, 1931	9.8	46.2	29. 3	83.0	56. 1	118.3	48.
June, 1932	1.3	38.9	27.0	67.4	47.4	107.8	39.
hiladelphia, Pa.: December, 1915		0.0					
June, 1920	101.7	3. 6 219. 6	1.3 28.6	66.8	6. 9 187. 4	102.8	1. 113.
December, 1920	68. 1	183. 5	38. 0	96.0	183. 4	122.3	100.
June, 1928	51.3	76. 5	67. 1	81.5	85. 4	121.4	75.
December, 1928	51.7	74.0	63. 8	87.3	83.9	120.3	74.
June, 1929.	50.0	72.6	59. 9	85. 4	84.1	121. 2	73.
December, 1929 June, 1930	56. 1 42. 6	71. 2 69. 7	56. 5	86.3	84.7	121. 2	75.
June, 1930. December, 1930.	34. 4	64. 9	54. 0 51. 2	86. 5 95. 8	83. 2 75. 3	121. 4 120. 7	69. 64.
June, 1931	20.8	57.6	45. 8	80. 5	63. 2	118.5	55.
December, 1931	17.0	42.0	40. 3	91.7	54. 1	117.6	50.
June, 1932	.1	33.4	33.7	67.4	43.9	113. 2	38.
rtland, Me.:	100	0.1					
December, 1915 June, 1920	1 2. 0 114. 5	2. 1 165. 9	14.5	83.9	6.2	1.4 89.4	107.
June, 1920 December, 1920	78.7	147.8	20. 0	113.5	190. 3 191. 2	94.3	93.
June, 1928	54. 2	66. 5	21. 5	98. 4	112.5	88.8	63.
December, 1928	57.0	64.8	20. 9	102. 4	112.3	97.3	66.
June, 1929	54.3	65.8	19.8	94.1	112.3	97.3	64.
December, 1929	55.7	65.6	19.8	101.9	112.1	97.1	65.
June, 1930	45. 9	65. 4	19.9	96.9	111.9	97.1	61.
June, 1931	38. 5 20. 5	60. 4 55. 7	19.3 17.9	99. 9 95. 3	105, 8 99, 2	95. 9 95. 9	57. 48.
December, 1931	17. 2	47.9	17.0	97.3	91. 0	95. 7	45.
June, 1932	5. 2	38.6	15.0	84.1			36.

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Decrease.
 No change.
 The decrease is due primarily to the change in consumption and price accompanying the change from manufactured to natural gas.

TABLE 4.—CHANGES IN COST OF LIVING IN 19 CITIES, DECEMBER, 1914, TO JUNE, 1932—Continued

Tal 1917, same period TABLE

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	Per cent of increase over December, 1914, in expenditure for-									
City and date	Food	Cloth- ing	Rent	Fuel and light	House- furnish- ing goods	Miscel- laneous	All			
ortland, Oreg.:										
December, 1915	13.8	3.0	1 10. 9	11.0	2.9	13.1	13.			
June, 1920	107.1	158.6	33. 2	46.9	183. 9	79. 7	190,			
December, 1920		122. 1 50. 8	36. 9 20. 9	65. 9	179. 9 80. 5	81.1	80,			
June, 1928 December, 1928	36. 6 41. 8	50. 8 49. 4	20. 9	51.6	80. 5 80. 1	76. 4 78. 0	50.			
June, 1929.	41.8	49. 4 48. 4	16. 4 11. 0	63.0	80. 1 79. 7	78. 0 77. 3	52,			
December, 1929		48.4	11. 0 8. 2	61.8	79. 7 81. 0	77.3	50, 51			
June, 1930	34. 2	44.8	5.4	49.7	78. 6	86.6	51. 49.			
December, 1930	17.8	38. 4	2.4	55. 5	69. 7	85. 1	49,			
June, 1931	8. 2	32.9	11.3	36.4	65. 8	83.6	35.			
December, 1931	6.0	23.3	16.2	40.1	56.8	82.9	31.			
June, 1932	16.9	15. 9	1 13. 2	22.9	42.7	79. 6	22			
n Francisco and Oakland, Calif.: December, 1915	14.3	0 -	10-	10.	0.0	1				
December, 1915 June, 1920	93.9	2. 5 191. 0	10.7	10.1	6. 0 180. 1	79.6	11			
June, 1920 December, 1920	93. 9 64. 9	191. 0 175. 9	9. 4 15. 0	66.3	180. 1 175. 6	79. 6 84. 8	96. 85			
June, 1928.	41.5	82.9	35. 7	45. 9	162.0	79.6	85. 58.			
December, 1928	48.0	83. 4	33. 5	47.5	99. 0	83. 2	61			
June, 1929	45.1	82.8	31.9	43.7	97.8	83. 4	60			
December, 1929	48.7	81.5	30. 4	40.3	97.4	82. 5	60			
June, 1930	40.4	77.9	28. 1	3 28.7	100.6	80.9	55.			
December, 1930	32.0	72.0	26. 1	32.0	91.6	82.0	51			
June, 1931	15.8	66.3	24. 2	28.8	79.3	79. 1	42			
December, 1931	10.3	57.5	20. 2	30.6	66. 6	78.7	38			
June, 1932	.5	48.7	14.8	25. 1	52. 9	76. 2	30			
December, 1915	1.3	.8	11.4	11.3	1.8	1.2	1			
June, 1920		212.1	33. 5	65. 3	207. 2	83.8	109			
December, 1920	63. 5	171.5	58. 6	94. 4.	206.6	91.5	98			
June, 1928	31.1	68.8	35. 9	56.9	120.8	81.9	56			
December, 1928	35. 0	69.0	33. 9	59.6	118.8	87.0	59			
June, 1929	33.9	68. 2	32.7	55.8	117. 9	83. 8	57			
December, 1929	35.1	67.7	28.3	56.1	117. 2	84.5	57			
June, 1930	25. 2 17. 7	66.0	27. 0	54. 2	113.7	84.7	53			
December, 1930		61. 4 58. 0	19. 6 15. 8	56. 2 50. 7	110. 1 98. 5	83. 8 83. 8	48			
June, 1931 December, 1931	14.7	58. 0 44. 6	9, 5	40, 9	98. 5 89. 0	83. 8 82. 3	33			
June, 1932	1 18. 1	35. 2	4.0	39.6	79. 0	76.8	25			
attle. Wash.:										
December, 1915	12.8	1.2	12.4	1.2	8.5	11.0	11			
June, 1920	102.3	173.9	74.8	65.8	221. 2	90. 4	110			
December, 1920	54.1	160. 5	76. 7	78.7	216. 4	95.5	94			
June, 1928	36.9	68.8	55. 5	57.1	133. 5	97. 4	6			
December, 1928	40.8	68.3	54.1	62.9	132.6	97. 4	6			
June, 1929 December 1929	43.7	66.6	52. 4 52. 1	62.1	131.7	98.8	6			
December, 1929 June, 1930	45. 9 38. 1	66. 6 64. 6	52. 1 50. 1	65. 8	132. 6 132. 4		6			
June, 1930 December, 1930	38. 1 22. 5	59. 7	50. 1 47. 8	65. 5	132. 4 128. 0	98. 6 97. 6	6 5			
June, 1931		55. 7	44. 4	54.0	114. 5	96.6	5			
December, 1931	8.8	45. 9	37.5	61.5	103. 1	94.6	4			
June, 1932		35. 2	25. 3	56.3	83. 4	90. 5	3			
ashington, D. C.:										
December, 1915	. 6	3.7	11.5	(3)	6.3	.4				
June, 1920	108. 4	184.0	15.6	53.7	196. 4	68. 2	10			
December, 1920	79.0	151.1	24.7	68.0	194.0	73.9	8			
June, 1928	55. 5	67. 0	32.7	38.8	102. 2	73. 6	5			
December, 1928	58. 2	65. 2	31.0	41.0	99.4	73.8	6			
June, 1929		64. 4	30.5	38. 0	100.0	74.0	6			
December, 1929	57. 4	62.3	30. 0	39.7	100. 2	74.3	5			
June, 1930	49.1	60. 5	29. 7	36. 2	100.4	73.8	5 5			
December, 1930	41.3 22.8	55. 4 49. 7	28. 7 28. 2	36.6	93.0	76.8	1 4			
June, 1931 December, 1931				32. 5 34. 9	86.6	75. 7 75. 3	3			
June, 1932	17.8	39. 7 28. 0	27. 9 27. 1		79. 9 61. 2	75.3 74.6				

Decrease.
 No change.
 The decrease is due primarily to the change in consumption and price accompanying the change from manufactured to natural gas.

Table 5 shows the changes in the cost of living from December, 1917, to June, 1932, for 13 cities. The table is constructed in the same manner as the preceding one and differs from it only in the base period and in the length of the time covered.

TABLE 5.—CHANGES IN COST OF LIVING IN 13 CITIES, DECEMBER, 1917, TO JUNE, 1932

10 July 110	Per cen	t of increas	se over l	December,	1917, in	expenditu	re for-
City and date	Food	Clothing	Rent	Fuel and light	House- furnish- ing goods	Miscel- laneous	All items
Manta, Ga.:					-		
December, 1918	19.0	29.1	14.0	17.0	24. 9	14.8	19. 7
June, 1920 Decemb er, 1920		80.5	40. 4	61.0	65. 0 58. 4	34.6	46.7
June, 1928	12.8	56.5	73. 1 38. 9	66.8	15. 2	39. 7 35. 6	38. 5
December, 1928		:4	38. 2	36. 3	14.9	35. 3	15. 6
June, 1929		3	37.5	28. 4	14.6	33. 0	13. 6
December, 1929	.1	1.6	35. 9	31.6	14.1	34. 2	13. 8
June, 1930	17.9	12.8	32.8	2 11.6	11.2	31.8	7.9
December, 1930	1 13. 1	1 6.4	30.8	11.6	8.0	30. 5	4. 5
June, 1931	1 24. 2	18.5	28.3	3.6	1.7	28. 2	11.7
December, 1931	1 29. 2	1 16.7	19.6	4.8	15.7	28.7	1 6. 2
June, 1932rmingham, Ala.:	1 36. 6	1 21.4	14.6	127	1 12.3	28. 2	1 11.4
December, 1918	17.7	23.9	8.1	22.8	19.4	13.8	17
June, 1920	36. 4	66.4	40.3	55.3	55. 6	28.7	17.
December, 1920	11.9	45.1	68. 5	74. 2	48. 1	30. 4	33.
June, 1928	14.7	14.3	59. 4	37.1	13.9	28. 2	13.
December, 1928	12.2	14.2	54.8	43. 4	12.3	27. 2	14.
June, 1929	13.9	14.3	50.8	35. 5	10.6	26. 1	12.
December, 1929		1 5.0	40.8	38. 8	10.5	27. 2	11.1
June, 1930	18.9	15.9	35. 9	33. 2	9.3	26. 4	8.
December, 1930		19.1	23. 5	38. 5	2.7 1 5. 4	25. 1	3.
June, 1931 December, 1931	1 33. 2	1 13.1	15.1	25. 3 24. 9	1 11.0	24. 2 24. 1	1 5. 1 9.
June. 1932		1 25. 5	17.6	9.0	1 23. 4	21.6	1 16.
ncinnati, Ohio:	10.0	20.0	- 1.0	0.0		21.0	- 10.
December, 1918	15.3	33.8	. 2	10.0	25. 7	20.4	17.
June, 1920	38.7	96.7	13. 6	26. 9	75. 5	47.6	47.
December, 1920	10.3	73. 5	25. 0	34.1	66. 7	53. 4	34.
June, 1928		1 3. 9	57. 1	61. 1	15. 4 14. 7	49.7	21. (
December, 1928		15.8	57. 1 56. 9	61.6	13. 6	49. 6 49. 7	21. 21.
December, 1929	4.5	16.4	56. 7	70. 9	13. 1	51. 2	23.
June, 1930.	11.2	17.1	54. 5	63. 6	11.6	51. 5	20.
December, 1930	18.0	18.7	52.8	69.7	8.7	49.4	16.
June, 1931	1 20, 4	1 17.5	49.3	59. 2	1.4	51.5	9.
December, 1931	1 24. 2	1 22.4	43.9	64. 6	1 5. 1	50.3	5.8
June, 1932	1 37. 3	1 24.3	34.1	54.7	1 11.3	48. 6	1 2.3
nver, Colo.:	00.0	40.1	10.0	0 1	22.6	14.0	00.
December, 1918	20. 0 41. 5	96.8	12. 8 51. 9	8. 1 22. 3	60. 2	14. 8 35. 4	20. 50.
December, 1920	7.9	78.3	69. 8	47.1	58, 9	38. 8	38.
June, 1928		8.4	55. 8	26. 9	20. 5	33. 4	14.
December, 1928	16.3	8.2	54. 1	39. 3	19.8	33. 8	16.
June, 1929	17.4	8.0	52. 3	3 19. 0	17.4	38. 8	15.
December, 1929		7.9	51. 1	29. 2	16.0	38.7	16.
June, 1930.	1 11.9	7.0	49.4	22.6	15. 3	38.0	13. (
December, 1930 June, 1931	1 19. 9	5.5	47.8	27.4	12. 4 8. 1	37.6	9.
June, 1931 December, 1931	1 28. 7 1 30. 6	16.5	43. 1 37. 1	7. 9 7. 1	1.2	36. 9 36. 5	3.
June, 1932	1 38, 6	1 15. 3	28. 2	1.2	19.1	35. 8	16.
dianapolis, Ind.:	00.0	20.0	-0			00.0	- 0. (
December, 1918	17.8	32.4	1.6	19.8	18.9	21.9	19. 1
June. 1920	49.0	87.9	18. 9	45. 6	67. 5	40. 5	50. 2
December, 1920	11.0	72.3	32. 9	60.3	63. 0	47.5	37. (
June, 1928	11.8	4.3	31. 3	29. 2	13.7	52, 3	18. 2
December, 1928	1.3	3.2	30. 4	32. 3 26. 1	12.6 12.7	52.0	18. 8
June, 1929 December, 1929	2.0	2.4	28.4	31.0	11.7	52. 3 52. 0	17. 7
June. 1930	12.7	1.2	25. 9	24.8	9.0	51.8	16.
June, 1930 December, 1930	1 14. 2	11.6	23. 9	30. 2	5. 6	50. 4	10. 8
June, 1931	1 26. 5	1 10.4	16.8	23. 8	13.6	49. 5	3. (
December, 1931	1 29, 1	1 19.4	11.3	23.7	1 12.4	49. 2	1.8
June, 1932	1 37. 6	1 22. 9	3. 4	12.1	1 17.0	48. 5	

¹ Decrease.
³ The decrease is due primarily to the change in consumption and price accompanying the change from manufactured to natural gas.

Table 5.—CHANGES IN COST OF LIVING IN 13 CITIES, DECEMBER, 1917, TO

TABLE

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unner not almo to union si	Per cer	nt of increa	se over	December	, 1917, in	expendit	ure for-
City and date	Food	Clothing	Rent	Fuel and light	House- furnish- ing goods	Miscel- laneous	All
Kansas City, Mo.:							
December, 1918		40.7	5.4	18.0	31. 1	15. 6	19.
June, 1920	44. 9	104. 5	29. 4	35. 2	73.0	37. 1	51.
December, 1920	10.2	76. 3	63. 9	55. 1	68.7	40. 3 35. 0	39.
June, 1928. December, 1928.	1 5. 4	2.7	24. 8 23. 8	28. 7 26. 8	6. 8 5. 6	35. 0 37. 8	11.
June. 1929	15.3	2.9	23. 8	26. 8 26. 3	5. 6	37. 8 37. 0	11,
December, 1929	122	1.8	20. 1	23. 9	3.4	36. 9	11,
June, 1930	18.6	1.5	19. 4	24. 0	2.1	36. 9	11.
December, 1930	1 15. 8	1.0	19.8	22.0	1 1. 1	44.3	9.
June, 1931	1 24. 9	11.7	17.4	19. 7	16.2	44. 0	2
June, 1931 December, 1931	1 28. 9	19.9	16. 3	14.3	1 11. 5	42.3	11
June, 1932	1 38. 7	1 17. 1	8. 2	12.0	1 18.0	37. 6	18
lemphis, Tenn.:	00	04-	(9)	00.0	0.	10 -	
December, 1918	20. 3	27.7	35.0	26.8	25. 4 67. 1	16. 1 38. 8	18
June, 1920 December, 1920	38. 8 7. 0	77. 5	35. 9 66. 2	49. 7 105. 4	67. 1 53. 9	38. 8 43. 2	46
June, 1928	18.1	59. 0 1. 5	66. 2 46. 3	105. 4 60. 0	16.0	43. 2 36. 9	39
December, 1928	14.9	1.5	40. 3	68. 8	14.8	37. 7	16
June, 1929	16.0	1,1	42.6	1 63. 6	13.8	38. 5	17
December, 1929	1 5. 1	1.1	40.6	55. 3	13. 9	38. 6	16.
June, 1930	1 10.6	1.6	39. 6	58. 9	13. 3	39. 6	14
December, 1930	1 19. 2	12.4	35. 8	57.9	10. 7	38. 8	10
June, 1931	1 31. 3	14.8	29.8	48.3	6.2	35. 5	3
December, 1931	1 34. 2	1 10. 4	18. 4	48.3	1.9	35. 2	1
June, 1932	1 42. 3	1 14. 5	11.3	45. 9	1 6. 5	29.0	17
Inneapolis, Minn.: December, 1918	17.7	33. 5	1,1	14.7	18.1	12.3	
June, 1920	50. 0	76.7	10.7	36. 9	65, 5	31. 3	15
June, 1920 December, 1920	13. 0	63. 6	36.8	60. 3	65.8	37. 6	43
June, 1928	1.6	11.1	27.2	45. 2	12.3	34. 6	15
December, 1928	.7	11.5	27.5	44.6	10. 5	34. 5	15
June, 1929	1.8	11.8	25. 6	41.9	10. 5	36.7	15
December, 1929	3. 9	12.8	25. 2	44.3	10.9	36.6	16
June, 1930	11.0	13.5	23. 6	46. 2	10.6	36.3	14
December, 1930	1 9. 4	14.4	23. 5	39, 9 41, 6	7.8	37. 0 35. 4	10
June, 1931 December, 1931	1 21. 2	1 16. 2	19.8	41.0	1 2.7	36. 1	5
June, 1932	1 35. 2	1 23. 3	12. 1	37. 1	1 12.4	35. 6	14
ew Orleans, La.:	00. Z	25.0	2.20. 1	J. 1		300	1
December, 1918	16. 6	36.8	(3)	19.7	23.8	15.9	17
June, 1920	28.6	94. 9	12.9	36.3	75. 9	42.8	41
December, 1920	10.7	69. 4	39.7	41.5	63. 9	57.1	36
June, 1928	16.8	13.1	55. 9	34.5	17.9	46.1	18
December, 1928	13.2	13. 1	54.8	28.4	17.9	46. 8 45. 9	19
June, 1929	14.3	12.6	53.6	2 14.9	15.9	45.9	17
December, 1929	11.8	12.6	51. 3 49. 2	18. 1 12. 4	15.7 14.8	45, 8 46, 5	18
June, 1930 December, 1930	1 15.0	12.0	49. 2 45. 3	12.4		46. 5	1 1
June, 1931	1 30. 3	12.7	43.0		5. 9	43.1	10
December, 1931	1 30. 3	19.7	38.7	4.1	1, 5	45. 2	
June, 1932	1 40. 5	1 13.9	35. 4	14.4	18.7	42.6	1
ttsburgh, Pa.:	20. 0	20.0		1	5.1		
December, 1918	18.8	35. 9	7.6	9. 2	26.3	16.3	1
June, 1920	36. 5	91. 3	34. 9	31.7	77.4	41, 2	4
December, 1920	14.3	75.4	35. 0	64. 4	78. 1	46. 3	3
June, 1928	13.8	4.2	72.8	85. 6	15. 9	46. 9	2
December, 1928	2.1	3.5	71.6	86. 0	16.4	46. 9	2
June, 1929	1.2		68. 3	85. 6	15. 1	48. 1	2
December, 1929	1. 2	2.1	67. 1	86.0	14.6	47. 5	2
June, 1930	1 5. 6	1.5	64. 9	85. 1	13. 5	47. 9	1
December, 1930	1 13. 4	13.9	63. 7	84. 4	6.6	47. 5	1
June, 1931	1 24. 2	19.4	56. 8	83. 1	164	46. 9	
December, 1931	1 29, 2	1 13. 3	52.3	83.8	16.4	45. 6	
June, 1932	1 38. 4	1 17.0	35. 9	81.6	114.5	42.5	1

Decrease.
 The decrease is due primarily to the change in consumption and price accompanying the change from manufactured to natural gas.
 No change.

TABLE 5.—CHANGES IN COST OF LIVING IN 13 CITIES, DECEMBER, 1917, TO JUNE, 1932—Continued

	Per cer	nt of increa	se over	December	, 1917, in	expenditu	ire for—
City and date	Food	Clothing	Rent	Fuel and light	House- furnish- ing goods	Miscel- laneous	All
Richmond, Va.:	1726			2			
December, 1918	20. 5	33. 8	1.0	11.8	26. 3	9.0	17. 9
June, 1920	36. 1	93. 6	12.5	36. 1	75.4	32. 4	43. 8
December, 1920	11. 9	69. 0	25, 9	62. 2	70. 0	36. 0	33. 3
June, 1928	13.8	5.0	30. 6	43, 9	33. 8	41.0	15. 3
December, 1928	13.1	5.4	28. 9	47. 5	32.7	40, 9	15. 7
June. 1929	15.0	4.2	28. 3	42.0	32. 4	40. 2	14. 2
December, 1929	13.4	4.2	27. 0	44.7	31. 3	41.0	14. 9
June, 1930	18.0	3.3	26. 5	38. 5	30. 0	41.3	12. 5
December, 1930			25. 5	42.0	26. 6	41.0	9. 3
June, 1931		124	24. 4	33. 1	18. 6	40. 6	2.4
December, 1931	1 29. 2	18.6	21. 8	37. 6	15. 5	40. 3	.3
June, 1932	1 39. 2	1 13. 9	20, 0	25, 6	2.8	38. 3	16.7
Louis Ma.		- 10. 0	20.0	20. 0	4.0	90. 9	- 0. 1
December, 1918	18.0	32.4	2.7	4.8	21.8	14.5	16. 7
June, 1920	46. 2	89. 7	29. 8	19.6	73. 1	37. 6	48. 9
December, 1920		70.0	42.4	42.6	70. 2	43. 2	35, 4
June, 1928		3.1	76. 3	18. 9	21. 6	37. 2	19. 9
December, 1928	12.2		74. 2	23. 1	19. 5	38. 7	20. 4
June, 1929	1 4	1.7	71. 8	22. 5	17. 8	38. 4	
December, 1929	1.5	1.1	69. 2	33. 4	16. 2		20. 5 21. 7
December, 1929	16.7	(5).8	66. 0	21. 8	16. 9	44. 2 44. 6	18. 3
June, 1930	1 14. 9	11.4	59. 5	29. 1			
December, 1930		1 10. 7			15. 4	42. 1	13. 9
June, 1931	1 24. 9		53. 0	12. 4	5. 9	41.5	6. 2
December, 1931		1 19. 2	44. 0	20. 7	1.6	39. 2	1.4
June, 1932		1 22. 4	34. 4	17.4	18.6	39. 1	14.3
cranton, Pa.: December, 1918			_				
December, 1918	21. 3	34. 4	. 5	24. 7	27. 0	21. 4	21. 9
June, 1920 December, 1920	41.4	97. 7	17. 2	43. 5	62. 8	47. 9	51. 5
December, 1920	17. 8	76. 5	18. 5	67. 3	62. 0	50. 4	39, 1
June, 1928	2.4	16. 2	71. 7	69. 0	30. 1	56. 2	26. 9
December, 1928	4. 3	15. 3	71.7	72. 2	29. 3	57. 8	27. 8
June, 1929	2.9	15. 2	68. 1	65. 0	26. 5	57. 5	26. 3
December, 1929	6.5	13. 7	63. 9	67. 6	26. 0	57. 3	27. 3
June 1930	1 %	13. 5	60. 5	60. 2	26. 0	57.3	23. 5
December, 1930	18.1	10.7	59. 1	66. 1	22. 9	56. 8	19. 5
June, 1931	1 20, 3	3.9	53. 2	61. 3	18. 2	55. 2	11. 8
December, 1930. June, 1931. December, 1931.	1 22, 8	17.1	51.8	69. 5	7.3	55. 2	8. 4
June, 1932	1 32, 1	19.5	43. 8	45. 3	3. 7	52, 1	1. 3

¹ Decrease.

Cost of Living in the United States and in Foreign Countries

THE trend of cost of living in the United States and foreign countries for specified months of 1920, 1929, 1930, 1931, and 1932 is shown in the following table. The number of countries included varies according to the information available. Several countries publish a general index and an index number for food only, while others omit clothing, and in some instances also rent. The table shows the trend in the cost of food, clothing, fuel and light, and rent, together with the general index for all items for the countries for which such information is published in the original sources.

Caution should be observed in the use of these figures, since not only are there differences in the base periods and in the number and kind of articles included, and the number of markets represented, but there are also radical differences in the method of construction

of the indexes.

³ No change.

INDEX NUMBERS OF COST OF LIVING FOR SPECIFIED PERIODS IN THE UNITED STATES AND IN FOREIGN COUNTRIES

INDE

Counti

Comp

Com

Base

19 19 19

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Country	United States	Canada	Austria, Vienna	Bel- gium	Czecho- slova- kia, Prague	Fin- land	France, Paris	Ger- many	Ire- land	Italy, Milan
Commodities in- cluded	Food, cloth- ing, fuel and light, rent, house furnish- ings,etc.	and light, rent, sun-	Food, cloth- ing, fuel and light, rent, sun- dries	Food, clothing, fuel and light, rent, sundries	Food, clothing, fuel and light, rent, sundries	Food, clothing, fuel, rent, taxes, etc.	Food, clothing, fuel and light, rent, sundries	Food, clothing, fuel and light, rent, sundries	Food, clothing, fuel and light, rent, sundries	Food, clothing, fuel and light, rent, sundries
Computing agency		Department of Labor	Federal Statis- tical Bureau	Ministry of Labor and Industry	Office of Statis- tics	Central Statis- tical Office	Com- mission for Study of Cost of Liv- ing	Federal Statis- tical Bureau	try	Munic
Base period	1913	1913	July, 1914	1921	July, 1914	Janu- ary- June, 1914	Janu- ary- June, 1914	1 913-14	July, 1914	Janu- ary- June, 1914
General: 1920—Av. for year. 1929—June December 1930—June December 1931—June December 1932—June	1 200. 4 170. 2 171. 4 166. 6 160. 7 150. 3 145. 8 135. 7	1 190 156 160 157 151 138 135	111 113 113 108 106 108 109	212. 6 227. 7 224. 0 222. 5 204. 5 193. 1	111. 1 105. 8 106. 8 101. 6 103. 6	1, 215 1, 207 1, 108 1, 083 1, 020 1, 048	3 341 4 556 4 565 4 572 4 597 4 589 4 531	153. 4 152. 6 147. 6 141. 6 137. 8 130. 4 121. 4	\$ 173 \$ 179 \$ 168 \$ 168 \$ 156 \$ 165 7 159	442. 544. 549. 530. 508. 488. 472. 471.
Food: 1920—Av. for year. 1929—June December 1930—June 1931—June December 1932—June	1 178. 0 154. 8 158. 0 147. 9 137. 2 118. 3 114. 3 100. 1	1 202 149 161 151 138 111 107	124 122 121 111 108 110 113	207. 8 227. 1 201. 1 200. 1 176. 5 160. 7	118. 1 109. 4 109. 3 99. 1	1, 103 1, 090 937 903 842 919	3 344 4 590 4 589 4 593 4 636 4 642 4 555	154. 0 152. 2 142. 7 134. 8 130. 9 119. 9 113. 4	\$ 164 6 173 \$ 156 6 156 7 139 8 155 7 144	454. 541. 548. 522. 499. 456. 437. 438.
Clothing: 1920—Av. for year. 1929—June December 1930—June December 1931—June December 1932—June		1 232 157 156 155 148 137 127	183 183 183 177 162 166 162	255. 8 262. 0 262. 0 259. 8 250. 8 246. 4	133. 2 119. 9 111. 9 105. 8	1, 055 1, 051 1, 046 1, 034 1, 004 976	\$ 485 4 604 4 604 4 626 4 610 4 552 4 508	172. 4 170. 3 166. 8 149. 8 139. 9 129. 1 117. 2		2 692, 555, 548, 508, 447, 421, 390,
Fuel and light: 1920—Av. for year. 1929—June December 1930—June December 1931—June December 1932—June	• 194, 9 175, 2 178, 7 172, 8 175, 0 165, 4 168, 0 157, 1	1 200 157 157 156 156 156 153 152	103 106 104 104 104 104 104	194. 3 212. 8 204. 6 198. 3 184. 0 182. 4	121. 6 121. 6 119. 7 119. 7	1, 456 1, 455 1, 407 1, 290 1, 067 914	\$ 296 4 539 4 602 4 607 4 633 4 596 4 619	148. 9 152. 9 149. 4 151. 1 145. 4 148. 8 133. 8		2 611. 425. 453. 473. 457. 424. 404.
tent: 1920—Av. for year. 1929—June December 1930—June December 1931—June December 1932—June	1 151. 1 153. 7 151. 9 149. 6 146. 5 142. 0 136. 2 127. 8	1 142 158 158 160 160 158 158	15 22 22 25 25 27 28	223. 7 226. 8 406. 0 405. 0 402. 5 401. 0	49. 6 52. 8 54. 4 54. 4	1, 476 1, 476 1, 467 1, 467 1, 373 1, 373	\$ 100 4 300 4 350 4 350 4 350 4 350 4 350 4 360	126. 0 126. 7 129. 8 131. 3 131. 6 131. 6		2 108. 407. 410. 410. 422. 473. 482.

See footnotes at end of table.

INDEX NUMBERS OF COST OF LIVING FOR SPECIFIED PERIODS IN THE UNITED STATES AND IN FOREIGN COUNTRIES—Continued

Country	Neth- er- lands, Am- ster- dam	Nor- way	Po- land, War- saw	Swe- den	Swit- zer- land	United King- dom	South Africa	China, Shang- hai	India, Bom- bay	Austra- lia	New Zealand
Commodities in-	Food, all com- mod- ities	Food, clothing, fuel, light, rent, sundries	Food, cloth- ing, fuel, light, rent, sun- dries	Food, cloth- ing, fuel, light, rent, sun- dries	Food, cloth- ing, fuel, light, rent, sun- dries	Food, cloth- ing, fuel, light, rent, sun- dries	Food, fuel, light, rent, sun- dries	Food, cloth- ing, fuel, light, rent, sun- dries	Food, cloth- ing- fuel, light, rent	Food, grocer- ies, rent	Food, clothing, fuel, light, rent, sundries
Computing agency	Bu- reau of Statis- tics	Central Statistical Office	Cen- tral Sta- tisti- cal Office	Board of So- cial Wel- fare	Fed- eral Labor Office	Minis- try of Labor	Office of Cen- sus and Statis- tics	Na- tional Tariff Com- mis- sion	Labor Office	Bureau of Cen- sus and Statis- tics	Census and Statis- tics Office
Base period	1911- 1913	July, 1914	1927	July, 1914	June, 1914	July, 1914	1914	1926	July, 1914	1923- 1927	1926- 1930
General: 1920—Av. for year. 1929—June December 1931—June December 1932—June	1 221.6 169.0 167.4 162.1 156.6 153.5 145.2	² 296 164 165 161 159 151 150	101. 7 100. 4 94. 0 93. 8 88. 4 83. 3 81. 9	2 270 8 171 6 170 8 165 6 163 8 160 6 158 8 157	224 161 162 158 156 150 145	2 252 160 167 154 155 145 148 142	179. 0 132. 0 129. 4 129. 3 125. 8 123. 3 120. 6	105. 4 111. 5 120. 2 113. 8 121. 0 121. 2	183 147 150 140 121 109 109	41, 042 41, 046 4 996 4 912 4 860 4 814	1, 019 *1, 003 7 990 8 963 7 913 8 888
Foed: 1920—Av. for year 1929—June December 1930—June December 1931—June 1932—June	1 239.7 165. 3 161. 6 151. 6 144. 8 140. 6 125. 5	156 157 151 149 138 136	94. 7 91. 7 80. 9 80. 2 75. 9 69. 1 68. 1	\$ 287 \$ 151 \$ 150 \$ 140 \$ 137 \$ 130 \$ 128 \$ 125	155 157 151 149 141 134	2 258 147 159 138 141 127 132 123	117. 6 112. 4 112. 0 108. 5 106. 4 100. 4	93. 5 104. 5 119. 2 100. 8 99. 6 97. 0	144 148 137 116 101 101	1, 045 1, 011 968 871 833 809	* 1, 017 988 922 838 834
Clothing: 1920—Av. for year. 1929—June. December. 1930—June. December. 1931—June. December. 1932—June. Fuel and light:		150 157 153 148 143 142	106. 5 108. 9 105. 8 99. 6 81. 3 76. 4 73. 0	2 390 8 185 6 183 8 181 6 178 8 175 6 170 8 168	167 165 160 155 145 137	2 430 218 215 213 205 195 190 190		97. 0 98. 8 99. 1 99. 0 110. 2 108. 8	159 151 138 125 123 117		8 972 7 955 8 924 7 877 8 849
1920—Av. for year 1929—June. December - 1930—June. December - 1931—June. 1932—June.		161 160 157 150 148 146	127. 6 134. 6 130. 5 132. 1 131. 7 129. 2 128. 1	\$ 372 \$ 165 6 160 \$ 160 6 156 \$ 155 6 150 \$ 149	134 135 132 131 127 125	2 230 170 175 170 175 170 175 170		123. 8 120. 2 120. 5 119. 6 128. 3 140. 8	143 143 143 141 143 145		8 990 7 990 8 994 7 990 8 973
Rent: 1920—Av. for year. 1929—June December 1930—June December 1931—June December 1932—June		175 175 174 174 173 173	131. 1 134. 3 154. 8 170. 1 170. 1 170. 1	\$ 130 \$ 200 \$ 200 \$ 205 \$ 205 \$ 206 \$ 206 \$ 206	181 181 185 185 187	154		102, 2 102, 4 104, 5 104, 5 105, 6 107, 3	172 172 158 158 158 158		* 1, 019 7 1, 011 * 990 7 96 * 92

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Living Expenditures of Illinois Farm and Small-Town Families

A N ANALYSIS of the expenditures of 70 farm families and 18 small-town families, all American born, for various 12-month periods during 1929 and 1930, was published by the University of Illinois Agricultural Experiment Station in the latter part of 1931. The information obtained in the survey for the farm families is given in detail in the report, but that for the small-town families is given only in summary form because of the much smaller number of families covered.

Farm Families

NEARLY half (47 per cent) of the farm families studied owned the land on which their homes were located; 28 per cent owned all of the land they operated and 19 per cent at least half of the land operated. The remaining 53 per cent were living on rented property, 23 per cent renting from relatives, and 30 per cent from nonrelatives. The separation of the records of tenants renting from relatives from those renting from nonrelatives was made to ascertain whether the plane of living was influenced by renting from relatives.

The largest farm consisted of 480 acres and the smallest of 80 acres. Over half (56 per cent) of the families were in the group farming from 161 to 320 acres.

The number of persons per farm family averaged 3.7, the most frequent number being 4. Nineteen per cent of the families had no children, 23 per cent had one child, 43 per cent had two children, 9 per cent had three children, and 6 per cent had four or five children. In several cases relatives living in the home were counted as members of the family.

The most common ages of both husbands and wives were from 28 to 32 years, and the children's ages ranged from 1 to 21, with an average of 10.5 years. Seventy-five per cent of the children were of preschool or grade-school age.

In 66 per cent of the farm homes both husband and wife had attended high school; in 52 per cent at least one of them had attended college, and in 17 per cent both husband and wife were college graduates. They showed a continued interest in education, all wives being members of the home bureaus in their respective counties and the majority of the husbands members of the farm bureaus. An average of eight farm and home papers and magazines per family were received yearly in this group. Eighty-one per cent of the owners, 64 per cent of the tenants renting from relatives, and 77 per cent of the tenants renting from nonrelatives had radios in their homes.

The larger and more modernly equipped homes were those occupied by families renting from relatives, while the houses occupied by owners averaged one room less per house and a smaller percentage of them had lighting systems, furnaces, and running-water equipment. Houses occupied by tenants renting from nonrelatives averaged 7 rooms per house, 30 per cent had lighting systems, 46 per cent furnaces, and 20 per cent running-water equipment. All but one home had a telephone and this one had access to a near-by telephone.

¹ University of Illinois. Agricultural Experiment Station. Bulletin No. 372: Living expenditures of a selected group of Illinois farm and small-town families (1929–30), by Ruth Crawford Freeman and M. Attie Souder.

With an average of 3.7 persons per family, the number of bedrooms was more than adequate, averaging four per house in the groups of owners, and tenants renting from relatives, and three in the group of

tenants renting from nonrelatives.

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The total yearly money value of the living enjoyed by the 70 farm families ranged from \$1,143 to \$7,342. The average for the whole group was \$2,489, of which \$1,657 represented average cash income per family, \$420 the average value of raised products used in the home or given away (figured at local retail prices), and \$412 the average yearly rental value of the house.

Table 1, compiled from the report, shows the cash and percentage distribution of expenditures of the farm families, under six main heads, in the different ranges of realized income. The term "realized income" as used in the report, represents "(1) net cash from all sources after farm business expenses are subtracted; (2) the retail market value of commodities produced on the farm and used in the home, consisting mainly of food and to a lesser extent fuel; and (3) the rental value of the house occupied by the family."

Table 1.—CASH AND PERCENTAGE DISTRIBUTION OF EXPENDITURES OF 70 ILLINOIS FARM FAMILIES IN DIFFERENT RANGES OF REALIZED INCOME

on district property and lift of	Yearly income								
Item	\$1,000- \$1,999	\$2,000- \$2,999	\$3,000- and over	Average for all families	Low	High			
Number of families in group	41	20	9						
FoodShelter—	\$571	\$735	\$715	\$636	\$427	\$1,306			
House 1	361	445	572	412	200	750			
Repairs and furnishings	84	132	195	112	4	515			
Clothing	138	243	349	195	43	687			
Operating expenses	135	261	275	189	62	848			
Savings and investments	116	297	1, 312	322	0	4, 089			
General	377	781	1, 392	623	116	2, 879			
Total, per family	1, 782	2, 894	4, 810	2, 489	1, 143	7, 342			
Food	32	26	15	27					
Shelter and furnishings	25	20	16	21					
Clothing	- 8	8	7	8					
Operating expenses	7	9	6	7					
Savings and investments	7	10	27	12					
General expenses	21	27	29	25					

¹ Rental value, figured on basis of 10 per cent of estimated total value of house.

Under the head "operating expenditures" were included fuel, light, power, telephone, ice, laundry, paid service, and small supplies. The report does not itemize the amounts spent for the various items going to make up the operating expenses. "General expenditures" included automobiles, health, education, recreation and entertainment, church, gifts, and personal expenses (shaving supplies, cosmetics, tobacco, dry cleaning, etc.).

In figuring the expenditures for food, the cost of meals for hired farm hands was estimated and subtracted from the total food costs and charged to the farm business. The cost of meals served to hired help used in the home was added to "service." Although children away at school were counted as members of the family, they figured

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in the listed food costs only for vacation periods when they were at home. The cost of meals for guests also was deducted from the total food cost.

Among the families with the smaller incomes—from \$1,000 to \$1,999—few differences were found in the average amounts spent for food, operating expenses, clothing, or savings and investments. As the size of the family increased, however, less was spent for shelter and furnishings but expenditures for general purposes tended to increase in direct proportion to the number of members in the family

In the income group \$1,000 to \$1,999, the cost of food per adult unit tended to decrease in the families of larger size, averaging 43 cents per day in families having 5 members, as compared with 57 cents in families having 2 members. The study did not disclose whether this was due to a lower standard of living or to greater efficiency in buying. In the next larger income group there was a gradual increase in the total cost of food per family with increase in size of family, but little variation in the cost per person. In the group having incomes of \$3,000 and over, the daily cost of food per person (40 cents) was lower than among families in the lowest incomerange group, where it was 49 cents per person and 43 cents per adult unit. No true explanation of this was reached, but it is observed in the report that the homemakers in the higher-income group may have bought more intelligently as they were older (average age, 48) and were probably more experienced buyers, and that probably food was bought in larger quantities by the larger families at a consequent lower cost. No information was obtained in the majority of cases as to whether the families studied were adequately fed, but nearly every homemaker had been enrolled in classes on foods and nutrition and should have had the usual knowledge as to planning of adequate meals.

The value assigned to food raised made up 66 per cent, or twothirds, of the total food cost among the families in the \$1,000 to \$1,999 income group, 63 per cent in the \$2,000 to \$2,999 group, and 54 per cent in the \$3,000 and over group.

Small-Town Families

THE average yearly living expenses of the small-town families (\$3,662) were much higher than those of the farm families (\$2,489), but only one small-town family had an income in the \$1,000 to \$1,999 range and there were 41 farm families in this lower income group.

Savings and operating expenditures were higher for the small-town families. The value of the food consumed, however, was lower than for the farm families, which the report states was probably due partly to the fact that on the farms more abundant supplies of produce were available and partly to the longer hours of active work by the farm families with a consequent larger consumption of food.

Table 2 shows the distribution of expenditures by the small-town families in the different income groups:

Table 2.—DISTRIBUTION OF EXPENDITURES OF 18 SMALL-TOWN FAMILIES IN ILLINOIS IN DIFFERENT RANGES OF REALIZED INCOME

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in Chilliantin (4	Num-	Average expenditures per family for—									
Income range	ber of families in group	Savings and invest- ments	Food	Oper- ating expenses	Shelter and furnish- ings	Cloth- ing	General expendi- tures	Total			
\$1,000 to \$1,999 \$2,000 to \$2,999 \$3,000 and over	1 8 9	\$211 501 1, 583	\$499 583 630	\$310 261 476	\$71 223 774	\$72 206 348	\$600 712 1, 106	\$1, 763 2, 486 4, 917			
Average of all families Percentage distribution _		1, 026 28	602 16	371 10	490 13	270 8	903 25	3, 662			

General Expenditures, all Families

The most marked differences in expenditures between the different income groups were found in connection with the items listed under general expenditures, and a more detailed analysis was therefore made of the expenditures listed under this head. Table 3, compiled from the report, shows the average amounts spent for each of these items by both farm and small-town families.

TABLE 3.—DISTRIBUTION OF GENERAL EXPENDITURES OF ILLINOIS FARM AND SMALL-TOWN FAMILIES IN DIFFERENT RANGES OF REALIZED INCOME

149	FF.	Farm :	families		Small-town families					
Item	In	come gro	up	Average	In	Income group				
	\$1,000- \$1,999	\$2,000- \$2,999	\$3,000 and over	of all families	\$1,000- \$1,999	\$2,000- \$2,999	\$3,000- and over	Average of all families		
Number in group. Average number of adult units.	41 2.9	20 3.6	9 4.6	3. 7	1 1.8	8 3.4	9 2. 5	2.9		
General expenditures: Personal, for all	\$29 157 43 28 48 34 38	\$57 362 102 47 90 51 72	\$145 331 247 64 385 102 118	\$52 238 86 38 103 48 58	\$79 193 10 72 27 3 216	\$82 171 140 66 137 49 67	\$96 401 91 195 137 83 103	\$89 287 106 131 131 64 93		
Total	377	781	1, 392	623	600	712	1, 106	903		

Clothing Expenditures, all Families

The expenditures for clothing by the farm and small-town families combined averaged, for boys of preschool age, \$33.79, and for girls, \$29.13; for boys of from 6 to 14 years of age, \$38.15, and for girls, \$37.76; and for boys of high-school age, \$51.66, and for girls, \$93.42. It will be noted that the cost of clothing for boys up to high-school age averaged more than for girls but for those of high-school age was much less than for girls. The report does not show the amounts spent for clothing for adults.

Cost of Living in the Methodist Episcopal Ministry

THE March, 1932, issue of Pension Progress (Chicago), published by the board of pensions and relief of the Methodist Episcopal Church, contains the results of a cost-of-living survey among the

clergymen of that church.

The report is based on questionnaires from 1,080 ministers in 29 white English-speaking conferences of the church in the United States. These conferences were chosen because they were representative of the various geographical areas and different economic and social conditions. A larger number of returns was secured from the East and Middle West than from the Far West or South, but this, it is stated, is representative of the distribution both of the general population and of the membership of the Methodist Episcopal Church.

The distribution, by size of place of residence, of the 1.080 ministers

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who furnished data is shown in the following table:

TABLE 1.—NUMBER AND PER CENT OF MINISTERS LIVING IN PLACES OF CLASSIFIED SIZE

Population	Ministers residing in places with specific population				
	Number	Per cent			
Under 500	214	19.8			
500 to 999	183	16. 9			
1,000 to 2,499	192	17.8			
2,500 to 4,999	111	10.3			
5,000 to 9,999	82	7.6			
10,000 to 24,999	66	6. 1			
25,000 to 49,999		4.5			
50,000 to 99,999	40	3. 7			
100,000 to 249,999	59	5. 5			
250,000 to 499,999	17	1.6			
500,000 to 999,999		1. 1			
1,000,000 and over	55	5. 1			
Total	1,080	100. 0			

It is seen that over half of the ministers were living in places of less than 2,500 population, while nearly two-thirds were in places of less than 5,000. The report points out that this also is typical of the

whole pastorate of the church.

Data were obtained not only as to the cash salary of the clergymen but also as to the total income (including fees for professional services, such as for weddings, perquisites of the office, earnings of wife or children, income from lodgers, gifts, etc., and all other income). The average cash salary reported was \$2,081, while the average income was \$2,325. To both of these amounts should be added the value of housing accommodations, either supplied by the congregation or paid for by the minister.

Table 2 shows the distribution, by income groups, of the 1,038

ministers who reported on this point.

It is seen from Table 2 that 43.1 per cent had total incomes, from all sources, of less than \$2,000 a year, 68.7 per cent less than \$2,500, and 80.7 per cent less than \$3,000.

TABLE 2.—NUMBER AND PER CENT OF MINISTERS IN EACH INCOME CLASS

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Income group	Ministers with classi- fied incomes			
The mark persons and T	Number	Per cent		
Under \$999	21	2.0		
\$1,000 to \$1,499	144	13. 9		
\$1,500 to \$1,999	282	27. 2		
\$2,000 to \$2,499	266	25. 6		
\$2,500 to \$2,999	125	12.0		
\$3,000 to \$3,499	81	7.8		
\$3,500 to \$3,999	39	3.8		
\$4,000 to \$4,999	49	4.7		
\$5,000 to \$5,999	25	2.4		
\$6,000 and over	6	. 6		
Total	1,023	100. 0		

Table 3 shows for the three income groups, \$1,000-\$1,499, \$2,000-\$2,499, and \$4,000-\$4,999, and for the whole group of 1,038 families, the distribution of the annual expenditures (except rent, which is not included).

It is seen that in every group, expenditures exceeded the income from all sources, the deficit ranging from 1.5 to 6.9 per cent of the total.

Table 3.—ANNUAL EXPENDITURES OF FAMILIES IN SPECIFIED INCOME GROUPS

\$1,000-\$ (average should be should b		\$2,000-\$ (average : Amount spent \$494.02 66.81 64.47		\$4,000-\$ (average \$ Amount spent		All group erage, \$2 Average amount spent	Per cent of total
\$359.91 38.48 39.50 99.38 161.27	26. 5 2. 8 2. 9	\$494.02 66.81	cent of total	spent \$695.14	cent of total	amount	cent
38. 48 39. 50 99. 38 161. 27	2.8	66. 81			15. 5	\$509.71	01.4
38. 48 39. 50 99. 38 161. 27	2.8	66. 81			15. 5	9509 71	01 4
39. 50 99. 38 161. 27	2.9		20	220 00		2000. 11	21.4
99.38		64 AT	0.0	110. 28	2.5	65. 49	2.8
99.38	7.3	02.37	2.9	131. 63	2.9	67. 47	2.9
161. 27		158.66	7.2	362, 87	8.1	179.74	7.6
40 00		217.46	9.8	331. 89	7.4	216. 21	9. 2
43. 09		67. 07	3.0	192. 46	4.1	81. 30	3.4
59.76	4.4	66. 37	3.0	126. 57	2.8	68. 59	2.9
216. 17	15.8	367.98	16. 1	764. 05	17.3	370. 25	15.7
11, 013. 56	74.8	11, 492. 84	67.3	2, 714. 89	60.7	1, 552. 76	65. 9
			7.7	396, 59		188. 42	8.0
6. 28			. 6	37.95		15. 16	.6
13.61	1.0	33. 23	1.5	66. 30	1.5	31.93	1.4
			.5	29. 28			. 6
23. 44			2.4	134. 51			2.6
							2.5
							2.4
7. 25	. 6	22.72	1.0	26.78	. 6	19. 19	.8
203. 02	15.0	403. 96	18. 2	917. 38	20.5	445, 33	18.9
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1, 355. 52	100. 0	12, 219. 02	100. 0	14, 471. 71	100.0	12, 355. 25	100. 0
20. 59	1.5	27. 33	1. 2	32. 57	.7	29. 83	1.3
	161. 27 43. 09 59. 76 216. 17 1, 013. 56 91. 31 6. 28 13. 61 6. 24 23. 44 22. 16 32. 73 7. 25 203. 02 85. 29 17. 91 24. 27 12. 47 1 138. 94 1, 355. 52	161. 27 11. 9 43. 09 3. 2 59. 76 4. 4 216. 17 15. 8 11, 013. 56 74. 8 91. 31 6. 7 6. 28 . 5 13. 61 1. 0 6. 24 . 5 23. 44 1. 7 22. 16 1. 6 32. 73 2. 4 7. 25 . 6 203. 02 15. 0 85. 29 6. 3 17. 91 1. 3 24. 27 1. 8 12. 47 . 9 1 138. 94 10. 3 1, 355. 52 100. 0 20. 59 1. 5	161. 27 11. 9 217. 46 43. 09 3. 2 67. 07 59. 76 4. 4 66. 37 216. 17 15. 8 367. 98 11, 013. 56 74. 8 11, 492. 84 91. 31 6. 7 171. 15 6. 28 .5 13. 74 13. 61 1. 0 33. 23 6. 24 .5 10. 66 23. 44 1. 7 53. 64 22. 16 1. 6 44. 78 32. 73 2. 4 54. 04 7. 25 6 22. 72 203. 02 15. 0 403. 96 85. 29 6. 3 157. 78 17. 91 1. 3 47. 26 24. 27 1. 8 89. 84 12. 47 .9 27. 32 1 138. 94 10. 3 322. 20 1, 355. 52 100. 0 12, 219. 02 20. 59 1. 5 27. 33	161. 27 11. 9 217. 46 9. 8 43. 09 3. 2 67. 07 3. 0 59. 76 4. 4 66. 37 3. 0 216. 17 15. 8 367. 98 16. 1 11, 013. 56 74. 8 11, 492. 84 67. 3 91. 31 6. 7 171. 15 7. 7 6. 28 . 5 13. 74 . 6 13. 61 1. 0 33. 23 1. 5 6. 24 . 5 10. 66 . 5 23. 44 1. 7 53. 64 2. 4 22. 16 1. 6 44. 78 2. 0 32. 73 2. 4 54. 04 2. 4 7. 25 6 22. 72 1. 0 203. 02 15. 0 403. 96 18. 2 85. 29 6. 3 157. 78 7. 1 17. 91 1. 3 47. 26 2. 1 24. 27 1. 8 89. 84 4. 1 12. 47 . 9 27. 32 1. 2 138. 94 <td>161. 27 11. 9 217. 46 9. 8 331. 89 43. 09 3. 2 67. 07 3. 0 192. 46 59. 76 4. 4 66. 37 3. 0 126. 57 216. 17 15. 8 367. 98 16. 1 764. 05 11, 013. 56 74. 8 11, 492. 84 67. 3 2, 714. 89 91. 31 6. 7 171. 15 7. 7 396. 59 6. 28 . 5 13. 74 . 6 37. 95 13. 61 1. 0 33. 23 1. 5 66. 30 59. 29. 28 23. 44 1. 7 53. 64 2. 4 134. 51 22. 16 1. 6 5. 29. 28 23. 43 1. 7 53. 64 2. 4 134. 51 22. 16 1. 6 44. 78 2. 0 121. 59 32. 73 2. 4 54. 04 2. 4 104. 38 7. 25 6 22. 72 1. 0 26. 78 203. 02 15. 0 403. 96 18. 2 917. 38 85. 29 6. 3</td> <td>161. 27 11. 9 217. 46 9. 8 331. 89 7. 4 43. 09 3. 2 67. 07 3. 0 192. 46 4. 1 59. 76 4. 4 66. 37 3. 0 126. 57 2. 8 216. 17 15. 8 367. 98 16. 1 764. 05 17. 3 11, 013. 56 74. 8 11, 492. 84 67. 3 2, 714. 89 60. 7 91. 31 6. 7 171. 15 7. 7 396. 59 8. 9 6. 28 . 5 13. 74 . 6 37. 95 . 8 13. 61 1. 0 33. 23 1. 5 66. 30 1. 5 6. 24 . 5 10. 66 . 5 29. 28 . 7 23. 44 1. 7 53. 64 2. 4 134. 51 3. 0 32. 73 2. 4 54. 04 2. 4 104. 38 2. 3 37. 25 . 6 22. 72 1. 0 26. 78 . 6 203. 02 15. 0 403. 96 18. 2 917. 38</td> <td>161. 27 11. 9 217. 46 9. 8 331. 89 7. 4 216. 21 43. 09 3. 2 67. 07 3. 0 192. 46 4. 1 81. 30 59. 76 4. 4 66. 37 3. 0 126. 57 2. 8 68. 59 216. 17 15. 8 367. 98 16. 1 764. 05 17. 3 370. 25 11, 013. 56 74. 8 11, 492. 84 67. 3 2, 714. 89 60. 7 1, 552. 76 91. 31 6. 7 171. 15 7. 7 396. 59 8. 9 188. 42 6. 28 . 5 13. 74 . 6 37. 95 . 8 15. 16 13. 61 1. 0 33. 23 1. 5 66. 30 1. 5 31. 93 6. 24 . 5 10. 66 . 5 29. 28 . 7 14. 78 23. 44 1. 7 53. 64 2. 4 134. 51 3. 0 61. 28 22. 16 1. 6 44. 78 2. 0 121. 59 2. 7 57. 84</td>	161. 27 11. 9 217. 46 9. 8 331. 89 43. 09 3. 2 67. 07 3. 0 192. 46 59. 76 4. 4 66. 37 3. 0 126. 57 216. 17 15. 8 367. 98 16. 1 764. 05 11, 013. 56 74. 8 11, 492. 84 67. 3 2, 714. 89 91. 31 6. 7 171. 15 7. 7 396. 59 6. 28 . 5 13. 74 . 6 37. 95 13. 61 1. 0 33. 23 1. 5 66. 30 59. 29. 28 23. 44 1. 7 53. 64 2. 4 134. 51 22. 16 1. 6 5. 29. 28 23. 43 1. 7 53. 64 2. 4 134. 51 22. 16 1. 6 44. 78 2. 0 121. 59 32. 73 2. 4 54. 04 2. 4 104. 38 7. 25 6 22. 72 1. 0 26. 78 203. 02 15. 0 403. 96 18. 2 917. 38 85. 29 6. 3	161. 27 11. 9 217. 46 9. 8 331. 89 7. 4 43. 09 3. 2 67. 07 3. 0 192. 46 4. 1 59. 76 4. 4 66. 37 3. 0 126. 57 2. 8 216. 17 15. 8 367. 98 16. 1 764. 05 17. 3 11, 013. 56 74. 8 11, 492. 84 67. 3 2, 714. 89 60. 7 91. 31 6. 7 171. 15 7. 7 396. 59 8. 9 6. 28 . 5 13. 74 . 6 37. 95 . 8 13. 61 1. 0 33. 23 1. 5 66. 30 1. 5 6. 24 . 5 10. 66 . 5 29. 28 . 7 23. 44 1. 7 53. 64 2. 4 134. 51 3. 0 32. 73 2. 4 54. 04 2. 4 104. 38 2. 3 37. 25 . 6 22. 72 1. 0 26. 78 . 6 203. 02 15. 0 403. 96 18. 2 917. 38	161. 27 11. 9 217. 46 9. 8 331. 89 7. 4 216. 21 43. 09 3. 2 67. 07 3. 0 192. 46 4. 1 81. 30 59. 76 4. 4 66. 37 3. 0 126. 57 2. 8 68. 59 216. 17 15. 8 367. 98 16. 1 764. 05 17. 3 370. 25 11, 013. 56 74. 8 11, 492. 84 67. 3 2, 714. 89 60. 7 1, 552. 76 91. 31 6. 7 171. 15 7. 7 396. 59 8. 9 188. 42 6. 28 . 5 13. 74 . 6 37. 95 . 8 15. 16 13. 61 1. 0 33. 23 1. 5 66. 30 1. 5 31. 93 6. 24 . 5 10. 66 . 5 29. 28 . 7 14. 78 23. 44 1. 7 53. 64 2. 4 134. 51 3. 0 61. 28 22. 16 1. 6 44. 78 2. 0 121. 59 2. 7 57. 84

¹ Not the exact sum of the items, but as given in the report.

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In commenting on this table, the report points out that not only does the expenditure for the various items vary with the income; it is also influenced by the number of persons in the family. Tabulation of 63 families of 2 persons, 76 families of 3 persons, 47 families of 5 persons, and 18 families of 7 or more persons—all in the \$1,500-\$1,999 income group—showed that in the larger families less was spent for insurance than in smaller families, while savings disappeared almost completely, and the total "investment" for families of 7 members or more was less than one-half that found in families of only 2 persons "the decline being progressive through each size of family." The deficit tended to increase with the size of the family.

Municipal Funerals in Milan, Italy

A RECENT report from James W. Gantenbein, American vice consul at Milan, Italy, contains an account of the system of municipal funerals and burials in that city. The system was adopted in 1903 and has also been instituted in several of the smaller towns of Italy. There are five authorized undertakers in Milan whose services are engaged in about 3 or 4 per cent of the funerals, generally in the cases of wealthy people or if transportation to or from the city is involved. In most cases the relatives of the deceased make the necessary arrangements with the municipal and church authorities.

The charges for the services of the professional undertakers vary according to circumstances from about 300 lire (\$15.60) when no arrangements are required outside the city to about 500 lire (\$26)

where such arrangements are made.

The municipality provides for four general classifications of funerals, each with a hearse, a plain unfinished wooden casket over which there is thrown a black cloth, and the services of a director and four pallbearers (two pallbearers for a child's funeral). Gratuitous services are provided for paupers. The rates are as follows:

Adults:	Lire	6. 7
Class 1, grade 1	2.880	(\$149.76)
Class 1, grade 2		(\$117.00)
Class 2, grade 1	1, 215	
Class 2, grade 2	900	
Class 2, grade 3	630	(
Class 3, grade 1	315	1
Class 3, grade 2	225	(\$11, 70)
Class 3, grade 3	180	(\$9. 36)
Class 4	110	(\$5. 72)
Children:		(40.1-)
Grade 1	540	(\$28, 08)
Grade 2	270	(\$14, 04)
Grade 3	90	(\$4. 68)
Supplementary carriages for mourners:		(+= -=)
Classes 1 and 2	180	(\$9, 36)
Classes 2 and 3	135	(\$7. 02)
		, ,

For transportation to a cemetery in a special covered conveyance in cases of death from contagious diseases, the charges are 180 lire (\$9.36) for an adult and 90 lire (\$4.68) for a child. Special caskets may be obtained for 450 and 540 lire (\$23.40 and \$28.08), cars for mourners for 135 and 180 lire (\$7.02 and \$9.36), casket cushions and

linings from 110 to 315 lire (\$5.72 to \$16.38). No deduction is made

where caskets are purchased from outside sources.

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When a death occurs, it must be reported within 24 hours. This is usually done by a member of the family, who goes with two witnesses to the Bureau of Vital Statistics, to present a doctor's certificate showing the cause of death. Arrangements for the funeral are made in another office in the same building, and the desired hour for the arrival of the hearse is designated; in winter this must be within 48 hours and in summer within 24 hours of time of death. Funerals begin at 9.30 or 11 a. m., 2 or 4 p. m., on week days; and at 8.30 or 9.45 a. m., 1.30 or 2 p. m., on Sundays and holidays.

Brief services are usually held at the church, after which the body is conveyed to the cemetery. In the types of hearses most commonly employed there are several seats in the front of the conveyance for members of the family. The former custom of the mourners' walking behind the hearse from the church to the cemetery has been discontinued because of traffic conditions. The pallbearers are usually the

four attendants provided by the municipality.

The services at the church are divided into definite classes with a published scale of fees, varying from 2,410 lire (\$125.32) for a mass in music, exterior and interior hangings, and the services of 13 priests

with torches to 25 lire (\$1.30) for 2 priests with candles.

There are two main cemeteries in Milan owned and operated by the city, one opened in 1866 and the other in 1895. In the former the plots are relatively expensive, owned by the comparatively well-to-do, and the burials are permanent. In the latter, burials are for a term of 10, 20, or 30 years, after which the bones are placed in an ossuary, containing gratuitous and paid-for niches. The costs of permanent plots in the expensive cemetery are 7,200 lire and 8,100 lire (\$374 and \$421) while very small tombs for bodies of children cost 650 lire (\$34). There are special rates for plots containing more than one body. Spaces range from 8,250 to 12,750 lire (\$429 to \$663) if above the ground and 5,500 to 8,500 lire (\$286 to \$442) when underground. In the cheaper cemetery, burial costs 270 lire (\$14) for 10 years, 450 and 540 lire (\$24 and \$28) for 20 years, and 720 lire (\$37) for 30 years, in which case a metal casket must be used. Special rates are provided for bodies brought in from outside the city. Special provisions are made in both cemeteries for the burial of Jews.

Since 1885 facilities for cremation have been offered by a cooperative society. This society performed 144 cremations in 1931 and 120 in 1930. The society makes no charge for cremating bodies of its members who during their life have paid a specified sum for the purpose—125 lire (\$6.50) if well-to-do, or 50 lire (\$2.60) per year if classified as of the working classes. For nonmembers the society charges 400 lire (\$21) if the deceased was a resident of the city, and 600 lire (\$31) otherwise. A fee of 25 lire (\$1.30) is paid the city to

cover the services of an attendant.

The municipality received in 1930 from the funeral services and the cemeteries 10,765,000 lire (\$559,780) and spent therefor 4,784,000 lire (\$248,768), omitting, however, interest on the investment.

IMMIGRATION AND EMIGRATION

Statistics of Immigration for May, 1932

By J. J. Kunna, Chief Statistician United States Bureau of Immigration

THE monthly statistics for May show a decrease in the inward, and an increase in the outward movement of aliens, as compared with the previous month. The inward movement of citizens also decreased, but the number of departing citizens increased. In May 13,058 aliens were admitted and 21,839 departed, as against 13,735 and 16,632, respectively, for April. American citizens arriving from foreign countries numbered 19,233, and those departing, 22,152, while in April 23,261 arrived and 19,980 departed.

Of the 13,058 aliens admitted in May, 2,479 were recorded as immigrants and 10,579 as nonimmigrants. Europe supplied 1,449 of the immigrants, nearly three-fourths of whom came from Germany, Great Britain, Italy, Poland, and Scandinavia, while Canada contributed 481 and Mexico 188. Compared with the corresponding month in 1930, which was the last year when immigration was normal, European immigration decreased 89 per cent, Canadian immigration

89 per cent, and Mexican immigration 60 per cent.

Among the aliens who departed in May last were 8,577 emigrants leaving to make their home again in some foreign country. The nationality most largely represented was the Mexican, numbering 2,801, while of the European nations the English numbered 812, German 570, Scandinavian 485, Scotch 465, Italian 372, Spanish 328, and Irish 303. New York State was given as the last permanent residence of 2,672 of these emigrants, while 837 left California, and 582 Texas. Most of those leaving the latter two States were Mexicans. Among the wage-earning emigrants departing this month, 2,675 were common laborers, 1,164 were skilled workers, and 509 were servants; 988 were of the professional, commercial, and miscellaneous classes, and 3,241 had, no occupation, being mostly women and children. Over one-half, or 4,715 of these emigrants embarked at New York, destined mainly to European countries.

INWARD AND OUTWARD PASSENGER MOVEMENT, JULY 1, 1931, TO MAY 31, 1932

	mE)		Inward	1	anh)	Aliens	o rin	id ni	Outwar	d	art in	Alien
	Alie	ns admi	itted	United		de- barred	Aliens departed			United		de- porte
	Immi- grant	Non- immi- grant	Total	States citizens arrived	Total	from enter- ing 1	Emi- grant	Non- emi- grant	Total	States citizens de- parted	Total	after land- ing 2
1931 July August September October November	3, 174 4, 090 5, 017 3, 913 2, 899 2, 642	16, 580 20, 940 17, 096 9, 832	20, 670 25, 957 21, 009 12, 731	59, 372 62, 581 32, 427 16, 823	80, 042 88, 538 53, 436 29, 554	761 657 684 806 573 485	10, 857 11, 318	23, 009 20, 393 16, 525 14, 271	32, 550 29, 126 27, 382 25, 589	65, 895 42, 247	71, 373 62, 398 48, 813	1, 58 1, 44 1, 66 1, 52
1932 January February March April May	2, 220 1, 984 2, 103 2, 469 2, 479	11, 266	9, 330 11, 351 13, 735	19, 829 22, 012 23, 261	29, 159 33, 363 36, 996			9, 691 10, 097	15, 879 16, 336 16, 632	22, 920 24, 718 19, 980	38, 799 41, 054 36, 612	1, 50 1, 50 2, 1 1, 60 1, 50
Total	32, 990	130, 576	163, 566	320, 572	484, 138	6, 500	94, 904	169, 647	264, 551	352, 480	617, 031	17,6

¹ These aliens are not included among arrivals, as they were not permitted to enter the United States.

² These aliens are included among aliens departed, they having entered the United States, legally or illegally, and later being deported.

DIRECTORIES

Labor Offices in the United States and in Foreign Countries

(Bureaus of labor, employment offices, industrial commissions, State workmen's compensation insurance funds, workmen's compensation commissions, minimum wage boards, factory inspection bureaus, and arbitration and conciliation boards)

United States

Department of Labor:

Hon. W. N. Doak, Secretary.

Hon. Robe Carl White, the Assistant Secretary.

Hon. W. W. Husband, Second Assistant Secretary.

Bureau of Labor Statistics—Charles E. Baldwin, acting commissioner.

Bureau of Labor Statistics—Charles E. Baldwin, acting commissioner.
Bureau of Immigration—Harry E. Hull, commissioner general.
Bureau of Naturalization—Raymond F. Crist, commissioner.
Children's Bureau—Miss Grace Abbott, chief. Address: Seventeenth and F Streets NW., Washington, D. C.
Employment Service—John R. Alpine, supervising director. Address: 1724 F Street NW., Washington, D. C.
Conciliation Service—Hugh L. Kerwin, director.
Washington, Mary Anderson, director. Address: 1723 F Street

Women's Bureau—Miss Mary Anderson, director. Address: 1723 F Street NW., Washington, D. C. United States Housing Corporation. Address: 1724 F Street NW., Wash-

ington, D. C.

Address of all bureaus, except where otherwise noted, 1712 G Street NW., Washington, D. C.

United States Employees' Compensation Commission:

Mrs. Bessie P. Brueggeman, chairman.

Harry Bassett, commissioner. John M. Morin, commissioner.

Address of commission: Old Land Office Building, Washington, D. C.

Board of Mediation:

Samuel E. Winslow, chairman.

G. Wallace W. Hanger. Edwin P. Morrow. Oscar B. Colquitt. John Williams.

George A. Cook, secretary.

Address of board: Eighteenth and E Streets NW., Washington, D. C.

Alabama

Child welfare commission: B. M. Miller, ex officio chairman, governor.

Child welfare department—
Mrs. A. M. Tunstall, director.
Ruth Scandrett, chief labor inspector.

Mrs. Daisy Donovan, deputy child labor inspector. Address of commission: State Capitol, Montgomery.

Workmen's compensation division (under bureau of insurance):

Chas. C. Greer, ex officio commissioner, superintendent of insurance.
Frank H. Spears, workmen's compensation clerk.
Address of division: State Capitol, Montgomery.
Board of coal-mine inspectors: W. B. Hillhouse, chief inspector, Birmingham.
United States Employment Service: R. C. Cadden, State director, Room 262, Federal Building, Birmingham.

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Alaska

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Federal mine inspector: B. D. Stewart, supervising mining engineer, United StatesGeological Survey, Juneau.

Arizona

Industrial commission:

R. B. Sims, chairman. W. E. Hunter. C. W. Hartman.

R. Rand, secretary: Burt H. Clingan, attorney and referee. William M. Brawner, industrial agent.

A. C. Kingsley, medical examiner.
Address of commission: Phoenix.

State inspector of mines: Tom C. Foster, Phoenix. United States Employment Service: H. M. Watson, State director, 235 Ellis Building, Phoenix.

Arkansas

Bureau of labor and statistics:

W. A. Rooksbery, commissioner. E. I. McKinley, deputy commissioner.

W. F. Sharp, statistician.

J. D. Newcomb, jr., chief boiler inspector.

Industrial welfare commission—
W. A. Rooksbery, ex officio member and chairman.
Mrs. Frank Gibb, secretary.

Claude M. Burrow. Mrs. C. H. Hatfield.

Elmer Grant.

Address of bureau: State Capitol, Little Rock.

Mine inspection department: Claude Speegle, State mine inspector, Fort Smith.

United States Employment Service:

W. H. Manville, State director, 206 Wallace Building, Little Rock. W. A. Rooksbery, Federal director, Room 326, State Capitol, Little Rock.

California

Department of industrial relations: Will J. French, director.

Division of industrial accidents and safety

Will J. French, chairman of industrial accident commission. Edward O. Allen, member of industrial accident commission. Meredith P. Snyder, member of industrial accident commission.

C. H. Fry, superintendent of safety.
H. L. White, secretary.
M. R. Gibbons, M. D., medical director.
A. L. Townsend, attorney.

State compensation insurance fund-Frank J. Creede, manager.

Division of immigration and housing-

(Vacancy), chief of division.

Most Rev. E. J. Hanna, D. D., president commission of immigration

and housing.

Charles C. Chapman, member commission of immigration and housing. Melville Dozier, jr., member commission of immigration and housing. J. Earl Cook, member commission of immigration and housing. Mrs. Mattie W. Richards, member commission of immigration and

housing.

Division of State employment agencies—W. A. Granfield, chief.

Division of labor statistics and law enforcement—Timothy A. Reardon,

Division of industrial welfare-

Mrs. Mabel E. Kinney, chief of division.
B. H. Dyas, chairman of industrial welfare commission.
William R. Kilgore, member of industrial welfare commission.

George Durand, member of industrial welfare commission.

Mrs. Mabel E. Kinney, member of industrial welfare commission.

Mrs. Elizabeth Lloyd Smith, member of industrial welfare commission.

Department of industrial relations—Continued.

Division of fire safety-Jay W. Stevens, chief, 433 California Street, San

Address of department: State building, San Francisco.

United States Employment Service:

Walter G. Mathewson, State director, 219-A Post Office Building, San

W. A. Granfield, Federal director, 722 Pacific Building, San Francisco.

Colorado

Bureau of labor statistics:

Charles M. Armstrong, secretary of State and ex officio labor commis-

M. H. Alexander, deputy labor commissioner and chief factory inspector. Address of bureau: Denver.

Industrial commission:

Thomas Annear, chairman.

W. H. Young.

William E. Renshaw. Feay B. Smith, secretary. DeStelle DeLappe, referee.

State compensation insurance fund: Howard Redding, manager.

Coal-mine inspection department: James Dalrymple, chief inspector, Denver.
Bureau of mines (metal mines): John T. Joyce, commissioner, Denver.
United States Employment Service: Quince Record, State director, 139 New

Custom House, Denver..

Connecticut

Department of labor and factory inspection:
Joseph M. Tone, commissioner.
Walter J. Couper, deputy commissioner.

William J. Fitzgerald, deputy commissioner of factory inspection.
State employment offices—Joseph M. Tone, commissioner.
Address of department: State Office Building, Hartford.

Board of compensation commissioners:

Frederic M. Williams, chairman, county courthouse, Waterbury. Charles Kleiner, 151 Court Street, New Haven. Charles E. Williamson, 955 Main Street, Bridgeport.

Leo J. Noonan, 54 Church Street, Hartford. James J. Donohue, 43 Broadway, Norwich.

State board of mediation and arbitration:

Johnstone Vance, New Britain.
Joseph H. Lawlor, Waterbury.
Walter J. Couper, New Haven.
United States Employment Service: Harry E. Mackenzie, State director, County Court House, Danbury.

Delaware

Labor commission:

Miss Helen S. Garrett, chairman.

John H. Hickey. Newlin T. Booth: Thomas C. Frame, jr. George A. Hill.

Miss Marguerite Postles, secretary.

Address of commission: Wilmington.
Child labor division—Charles A. Hagner, chief, Wilmington.

Women's labor division—Miss Marguerite Postles, assistant, Wilmington. Industrial accident board:
Walter O. Stack, president.
Robert K. Jones.

William J. Swain.

James B. McManus, secretary.
Address of board: Delaware Trust Building, Wilmington.
United States Employment Service: Francis E. B. McCann, State director, Old Federal Building, Sixth and King Streets, Wilmington.

Florida

- State labor inspector: John H. Mackey, Jacksonville. United States Employment Service: James A. Davis, State director, 230 East Forsyth Street, Jacksonville.

Georgia

- Department of industrial relations:
 - Hal M. Stanley, chairman, also commissioner of commerce and labor, T. E. Whitaker, representing employees.

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- Max E. Land, representing employers.
- Sharpe Jones, secretary-treasurer.
 Elizabeth Ragland, assistant secretary.
 C. W. Roberts, medical examiner.
 H. L. Spahr, chief statistician.
 Address of department: Atlanta.

- United States Employment Service:
 Otto F. Bading, State director, 517 Federal Building, Atlanta.
 Cator Woolford, Federal director, 90 Fairlie Street, Atlanta.

Hawaii

City and County of Honolulu

- Industrial accident board:
 - M. Macintyre, chairman.
 A. J. Campbell.
 A. J. Wirtz.
 E. N. Clark.
 K. B. Barnes.

 - A. F. Schmitz, secretary.

- Industrial accident board:

 County of Maui

 - W. F. Crockett, chairman.

 Dan T. Carey.
 Ralph H. Wilson.
 Mrs. W. Weddick.
 Paul F. Lada.
 Mrs. France G. W. Mrs. Frances S. Wadsworth, inspector and secretary.
 - Address of board: Wailuku.

County of Hawaii

- Industrial accident board:
- l accident board: Dr. Harold B. Elliot, chairman.

 - Otto Rose.
 Cyril J. Hoogs.
 James Webster.

 - Wm. C. Foster.

 Mrs. L. Hazel Bayly, secretary.

 Address of board: Hilo.

County of Kauai

- Industrial accident board:
- al accident board:
 J. M. Lydgate, chairman, Lihue.
 H. H. Brodie, Hanapepe.
 J. B. Fernandez, jr., Kapaa.
 J. P. Clapper, Kealia.
 G. M. Coney, Lihue.

 Idaho

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 Idaho

- Industrial accident board:
 - Joel Brown, chairman.

- G. W. Suppiger.
 Frank Langley.
 P. H. Quirk, secretary.
 Address of board: Boise.
 State insurance fund: P. C. O'Malley, manager, Boise.
 Inspector of mines: Stewart Campbell, Boise.
 United States Employment Service: Thomas W. McDonough, State director, third floor, Boise City Building, Boise.

Illinois

Department of labor:

Barney Cohen, director.

W. B. McHenry, assistant director.

Address of department: State Capitol, Springfield.

Division of factory inspection—William H. Curran, chief inspector, 608 South

Dearborn Street, Chicago.

Division of private employment agencies inspection—John J. McKenna, chief inspector, 608 South Dearborn Street, Chicago.

Division of free employment offices—Frank Unger, State superintendent,

State Capitol, Springfield.

General advisory board of the free employment offices-

B. M. Squires, chairman.
A. H. R. Atwood, M. D., secretary (representing employers).
Oscar G. Mayer (representing employers).
John H. Walker (representing employees).

Miss Agnes Nestor (representing employees).

Address of board: 141 West Jackson Boulevard, Chicago.

Industrial commission-

Charles A. Nowak, chairman.

Peter Grieve, jr. (representing employers). H. H. Willoughby (representing employers). Charles F. Wills (representing employees). Edwin R. Wright (representing employees).

Francis A. Horrigan, secretary.

Address of commission: 205 West Wacker Drive, Chicago.

Division of statistics and research—Howard B. Myers, chief, 205 West Wacker Drive, Chicago.

Department of mines and minerals:

John G. Millhouse, director, 315 East Cook Street, Springfield. Peter Joyce, assistant director, 722 North Grand Avenue west, Spring-

United States Employment Service: Ralph B. Powers, State director, 116 North Dearborn Street, Chicago.

Indiana

Industrial board:

Roscoe Kiper, chairman.
Harry J. McMillan.
Walter W. Wills.
William A. Faust. Edgar A. Perkins, sr.

Charles A. Rockwell, secretary.

Department of factories, buildings, and workshops—James E. Reagin, chief

Department of boilers—James M. Woods, chief inspector.

Department of women and children-Mrs. Jessie Gremelspacher, director. Address of board: Indianapolis.

Department of mines and mining—Albert C. Dally, chief inspector, Indianapolis.

United States Employment Service:

Clarence W. Baker, State director, Room 416, Federal Building, Indianapolis. Bert Robinson, Federal director, Room 404, State Capitol, Indianapolis.

Iowa

Bureau of labor statistics: A. L. Urick, commissioner, Des Moines. State-Federal Employment Service-

George B. Albert, chief clerk, Des Moines.
John W. Holmes, clerk, Sioux City.

Workmen's compensation service:

A. B. Funk, industrial commissioner.
Ralph Young, deputy commissioner.
Ora Williams, secretary.
Dr. Oliver J. Fay, medical counsel.
Address of service: Des Moines.

State bureau of mines:

W. E. Holland, inspector first district, Centerville. R. T. Rhys, inspector second district, Ottumwa. J. E. Jeffreys, inspector third district, Des Moines.

Phil R. Clarkson, secretary, Des Moines. United States Employment Service:

T. L. Taggart, State director, Room 27, Federal Building, Sioux City. A. L. Urick, Federal director, Bureau of Labor Statistics, Des Moines.

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Kansas

Commission of labor and industry:

G. Clay Baker, chairman. Harry C. Bowman, commissioner. C. J. Beckman, commissioner.

Address of commission: Statehouse, Topeka.

Department of workmen's compensation—
G. Clay Baker, chairman.
Harry C. Bowman, commissioner.

Address of department: Statehouse, Topeka.

Department of labor-

C. J. Beckman, Federal director and commissioner of labor in charge of factory and mine inspection, free employment, and women's and children's division.

Address of department: Statehouse, Topeka.

United States Employment Service:

Jay M. Besore, State director, Room 300, Insurance Building, Topeka. C. J. Beckman, Federal director, Statehouse, Topeka.

Kentucky

Department of agriculture, labor, and statistics:

Eugene Flowers, commissioner, Frankfort.

Edward F. Seiller, chief labor inspector, Louisville. John W. Rogers, deputy labor inspector, Louisville. John M. Hunt, deputy labor inspector, Covington.

Miss Louie Duncan Brown, deputy labor inspector, Lexington.
Mrs. Hallie B. Williams, deputy labor inspector, Louisville.

Department of mines: John F. Daniel, chief, Lexington.

Workmen's compensation board:

Davis M. Howerton, chairman, Ashland. Harry B. Miller, member, Lexington. Ben Petrie, member, Elkton.

Herbert Carr, referee, Fulton.

E. A. Taylor, referee, Greenville.

Tyler Munford, referee, Morganfield.

Ward Lehigh, referee, Louisville. Irvine Turner, referee, Jackson.
Robert Dixon, jr., secretary, Frankfort.
A. H. Mitchell, actuary, Fleming.
Warren Fisher, statistician, Carlisle.
United States Employment Service:

George Baker, State director, third floor, City Building, Central City.

Louisiana

Bureau of labor and industrial statistics:

E. L. Engerran, commissioner.

Mrs. M. V. Kirby, secretary.

Address of bureau: New Orleans.

United States Employment Service: Charles W. Swallow, State director, 521 Common Street, Shreveport.

Maine

Department of labor and industry: Charles O. Beals, commissioner, Augusta. Industrial accident commission:

Donald D. Garcelon, chairman.

Earle L. Russell. Granville C. Gray.

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Charles O. Beals (ex officio), commissioner of labor. Wilbur D. Spencer (ex officio), insurance commissioner Address of commission: Augusta.

State board of arbitration and conciliation:
Hon. Clarence H. Crosby, chairman, Dexter.
Edward F. Gowell, Berwick.
Charles M. Taylor, 453 Congress Street, Portland.
United States Employment Service:

Harry T. Burr, State director, 142 Free Street, Portland. Charles O. Beals, Federal director, Statehouse, Augusta.

Maryland

Commissioner of labor and statistics: J. Knox Insley, M. D., 16 West Saratoga Street, Baltimore.

Bureau of mines-John J. Rutledge, chief mine engineer, 22 Light Street, Baltimore.

Mine and examining board—John J. Rutledge, chairman, 22 Light Street, Baltimore.

State industrial accident commission-

Robert H. Carr, chairman.

Omar D. Crothers.

Daniel R. Randall. Albert E. Brown, secretary.

Miss R. O. Harrison, director of claims.
Robert P. Bay, M. D., chief medical examiner.
Gladys M. Tunstall, statistician.

State accident fund-

James E. Green, jr., superintendent.

Address of commission: 741 Equitable Building, Baltimore.

United States Employment Service:
Raymond W. Bellamy, State director, 411 Customs House, Baltimore.
J. Knox Insley, M. D., Federal director, 16 West Saratoga Street, Baltimore.

Massachusetts

Department of labor and industries:

Edwin S. Smith, commissioner. Miss Mary E. Meehan, assistant commissioner.

Associate commissioner (constituting the board of conciliation and arbitration and the minimum wage commission)-

Edward Fisher, chairman. Herbert P. Wasgatt. John L. Campos.

Veronica A. Lynch, secretary to the commissioner. Division of industrial safety—John P. Meade, director.

Division of statistics—Roswell F. Phelps, director.
Division of public employment offices—Walter H. Neaves, director.

Division of standards—Francis Meredith, director.
Division of minimum wage—Miss Mary E. Meehan, acting director.
Massachusetts Industrial and Development Commission—M. Joseph McCartin, acting secretary.

Division on the necessaries of life—Ralph W. Robart, director.

Address of department: Statehouse, Boston.

- Department of industrial accidents:
 - Joseph A. Parks, chairman. Alfred B. Cenedella.

 - Edward E. Clark.
 Daniel J. Sullivan.
 Chester E. Gleason.
 - Charles M. Stiller.
 - Mrs. Emma S. Tousant.

 - Robert E. Grandfield, secretary.
 Francis D. Donoghue, M. D., medical adviser.
 Address of department: Statehouse, Boston.
- United States Employment Service:
 - Walter C. Conroy, State director, Young's Hotel Building, 22 Court Street, Boston. Edwin S. Smith, Federal director, 473 Statehouse, Boston.

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Michigan

- Department of labor and industry:
 - C. M. Woodbury, labor commissioner.
 - Samuel H. Rhoads, chairman, compensation commissioner.
 - Isabel Larwill, compensation commissioner.
 - Arthur R. Sherk, compensation commissioner.
 - Leo J. Herrick, statistician.

 - John L. Boer, secretary.
 Address of department: Lansing.
 State accident fund—John W. Haarer, manager.
- United States Employment Service:
 - Henry Irvin, State director, Room 605 Lafayette Building, Detroit. C. M. Woodbury, Federal director, State Capitol, Lansing.

Minnesota

- Industrial commission:
 - J. D. Williams, chairman.
 C. R. Carlgren.
 Niels H. Debel.

 - J. F. Emme, secretary.
 - Emily L. Olson, assistant secretary.

 - Division of workmen's compensation—H. O. Halverson.
 Division of accident prevention—A. E. Smith.
 Division of boiler inspection—George Wilcox, chief.
 Division of women and children—Florence A. Burton.
- Division of statistics—Carl E. Dahlquist, chief.

 Address of commission: 612 Bremer Arcade, St. Paul.

 United States Employment Service: Richard T. Jones, State director, Room 304, Post Office Building, Minneapolis.

Mississippi

- Bureau of industrial hygiene and factory inspection:
 J. W. Dugger, M. D., director.
 Mrs. Myrtis Clements, secretary.
 Address of bureau: P. O. Box 784, Jackson.
 United States Employment Service: J. T. Farr, State director, third floor, City Hall Building, Meridian.

Missouri

- Department of labor and industrial inspection: Mrs. Amanda D. Hargis, commissioner, Jefferson City.
- Workmen's compensation commission: Evert Richardson, chairman.

 - Orin H. Shaw.
 - Jay J. James.
 - William T. Findly, secretary.
 - Address of commission; Jefferson City.

State bureau of mines:

Frank G. Fenix, chief inspector, Joplin. John H. Boos, secretary, Jefferson City.

Tolbert Henson, deputy inspector, Perryville. Chant Gray, deputy inspector, Kirksville.
Herman Beretta, deputy inspector, Lexington.
United States Employment Service:

Otis J. Rogers, State director, 2023 Main Street, Kansas City. Mrs. Amanda D. Hargis, Federal director, Capitol Building, Jefferson City.

Montana

Department of agriculture, labor, and industry:

A. H. Stafford, commissioner.

Division of labor—Warren W. Moses, chief.

Address of department: Helena.

Industrial accident board:

J. Burke Clements, chairman.

G. P. Porter, State auditor and (ex officio) commissioner of insurance. A. H. Stafford (ex officio), treasurer of the board.

Gordon G. Watt, secretary. Harold O. Mead, chief accountant.

Mrs. Nona McRae, clerk.

Bureau of safety inspection—Mrs. Nona McRae, chief clerk.

Address of board: Helena.

United States Employment Service: Stephen Ely, State director, Room 5, Montana Building, Helena.

Nebraska

Department of labor: Cecil E. Matthews, secretary of labor and commissioner.

Bureau of compensation—Cecil E. Matthews, chief.

Address of department: State Capitol, Lincoln.

United States Employment Service: Mrs. Lulah T. Andrews, State director, Room 640, Insurance Building, Omaha.

Nevada

Office of labor commissioner: William Royle, labor commissioner, Carson City. Industrial commission:

Dan J. Sullivan, chairman.

William Royle. Alex L. Tannahill.

Vinton A. Muller, M. D., chief medical adviser, Reno. Address of commission: Carson City.

Inspector of mines: A. J. Stinson, Carson City. J. P. Caulfield, jr., deputy, Las Vegas.

United States Employment Service:

Archie L. Cross, State director, Washoe County Library Building, Reno. William Royle, Federal director, Room 34, Capitol Building, Carson City.

New Hampshire

Bureau of labor:

John S. B. Davie, commissioner, Concord. Bion L. Nutting, factory inspector, Concord. Harold I. Towle, factory inspector, Laconia. Mary R. Chagnon, factory inspector, Manchester.

State poard of conciliation and arbitration:

J. R. McLane (representing public), Manchester.

Walter F. Duffy (representing manufacturers), Franklin.
William J. Cullen (representing labor), Manchester.
United States Employment Service:

Henry A. Tafe, State director, Room 218, Shea Building, Nashua. John S. B. Davie, Federal director, State Capitol, Concord.

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New Jersey

Department of labor: Charles R. Blunt, commissioner.

Bureau of general and structural inspection and explosives—Charles H. Weeks, deputy commissioner of labor.

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Bureau of hygiene, sanitation, and mine inspection—John Roach, deputy commissioner of labor.

Bureau of electrical and mechanical equipment—James A. Felton, chief.

Bureau of statistics and records—James A. T. Gribbin, chief. Bureau of women and children—Mrs. Isabelle M. Summers, director.

Bureau of engineers' license, steam boiler, and refrigerating plant inspection-Joseph F. Scott, chief examiner.

Bureau of workmen's compensation-Charles R. Blunt, commissioner.

William E. Stubbs, deputy commissioner and secretary. Charles E. Corbin, deputy commissioner.

John J. Stahl, deputy commissioner. Daniel A. Spair, deputy commissioner.

John W. Kent, supervisor of informal hearings.

John C. Wegner, referee.

Harry F. Monroe, special investigator.

Frank C. Mobius, special investigator.

Hugh J. Arthur, special investigator.

William J. William S. Willi William J. Wilkie, special investigator. Harry H. Umberger, special investigator.

Maurice S. Avidan, M. D., medical adviser.

William C. Stuart, M. D., medical adviser.

James C. Keeney, M. D., medical adviser.

Bureau of employment—Russell J. Eldridge, director.

Address of department: Trenton.

United States Employment Service:

Philip Stevenson, State director, Room 760, 1060 Broad Street, Newark. Charles R. Blunt, Federal director, Statehouse, Trenton.
Russell J. Eldridge, assistant Federal director, Room 757, 1060 Broad

Street, Newark.

New Mexico

Labor and industrial commission:

Bonifacio Montoya, chairman, Santa Fe. Edward Sackett, member, Albuquerque.

Dan Kelly, member, Tumcari.

Labor commissioner—Ralph E. Davy, Santa Fe.

United States Employment Service: Mrs. E. A. Perrault, State director, Courthouse, Albuquerque.

New York

Department of labor:

Frances Perkins, industrial commissioner.

Elmer F. Andrews, deputy industrial commissioner.

Maud Swartz, secretary.

Industrial board-

Richard J. Cullen, chairman. James S. Whipple. Edward W. Edwards. Leonard W. Hatch. Nelle Swartz.

Division of inspection—James L. Gernon, director.

Division of inspection—James L. Gernon, offector.

Division of workmen's compensation—

Verne A. Zimmer, director.

Raphael Lewy, M. D., chief medical examiner.

Address of division: 150 Leonard Street, New York.

Division of industrial relations—James Brady, director.

Bureau of mediation and arbitration—A. J. Portenar, chief mediator.

Bureau of aligns—Lillian R. Sire, director.

Bureau of aliens—Lillian R. Sire, director. Division of employment—Fritz Kaufmann, chief, 124 E. 28th Street, New York.

Division of junior placement—Clare L. Lewis, director.

Department of labor—Continued.

Division of industrial codes—

Thomas C. Eipper, referee.

Edward E. J. Pierce, referee.

Division of engineering—William J. Picard, chief, Albany.

Division of industrial hygiene—James D. Hackett, director.

Division of statistics and information—

Eugene B. Patton, director.

Eugene B. Patton, director.

S. W. Wilcox, chief statistician, Albany.
Division of women in industry—Frieda S. Miller, director.
State insurance fund—C. G. Smith, manager, 625 Madison Avenue, New

General address of department, except where otherwise noted: 80 Centre Street, New York.
United States Employment Service:

Ralph H. Koch, State director, Room 214, No. 641 Washington Street, New York.

Frances Perkins, Federal director, 80 Centre Street, New York.

North Carolina

Department of labor:

Frank D. Grist, commissioner.

Division of statistics—Liston L. Mallard, chief statistician:

Division of standards and inspection—E. F. Carter, director.

Division of service to World War veterans—

Col. John H. Manning, commissioner.

F. A. Hutchison, service officer.
L. B. Flemming, assistant service officer.
Address of department: Raleigh.

Industrial commission:

Matt H. Allen, chairman.

J. Dewey Dorsett, representing employers.
T. A. Wilson, representing employees.
E. W. Price, secretary.
Address of commission: Raleigh.

United States Employment Service:

Nathan A. Gregg, State director, Mint Building, Charlotte. Frank D. Grist, Federal director, Agricultural Building, Raleigh.

North Dakota

Department of agriculture and labor: Joseph A. Kitchen, commissioner, Bismarck. Workmen's compensation bureau:

R. E. Wenzel, chairman.
W. H. Stutsman, commissioner.
W. C. Preckel, commissioner.
Carl E. Knudtson, secretary.

Address of bureau: Bismarck.

Minimum wage commission: John Garberick, secretary, Bismarck.

Coal mine inspection department: Edwin R. Rupp, inspector, Bismarck.

United States Employment Service: Roland A. Rottweiler, State director, Room 307, Federal Building, Grand Forks.

Ohio

Department of industrial relations: T. A. Edmondson, director.

Industrial commission—

Wellington T. Leonard, chairman.

L. E. Nysewander. Thomas M. Gregory.

T. A. Edmondson, secretary.

Division of workmen's compensation—

Lloyd D. Teeters, chief and assistant director, department of industrial

relations.

William H. Mahoney, supervisor of claims.

W. K. Merriman, assistant supervisor of claims.

Evan I. Evans, supervisor of actuarial division.

Department of industrial relations—Continued.

Division of workmen's compensation—Continued.

G. L. Coffinberry, auditor and statistician.
H. H. Dorr, M. D., chief medical examiner.
Division of labor statistics and employment offices—John B. Gilbert, chief.

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Division of labor statistics and employment onices—John B. Gillo Division of safety and hygiene—

Thomas P. Kearns, superintendent.
Carl C. Beasor, chief statistician.
Division of factory inspection—Edgar W. Brill, chief.
Division of beaminers of steam engineers—Jos. M. Wirmel, chief.
Division of miners of steam engineers—Jos. M. Wirmel, chief.

Division of mines—James Berry, chief.
Address of department: Columbus.

United States Employment Service:

Wm. Robinett, State director, 501 Spahr Building, Columbus. John B. Gilbert, Federal director, Pure Oil Building, Columbus.

Oklahoma

Department of labor:

W. A. Pat Murphy, commissioner. James Hughes, assistant commissioner.

Bureau of factory inspection—Fred Kemp, chief inspector.

Division of women and children in industry-

Zelda Harrel, inspector. Grace Clark, inspector.

Bureau of labor statistics—Adah E. Mauldin, statistician.

Bureau of free employment-

Oklahoma City office (men's division), J. R. McCarty, superintendent. Oklahoma City office (women's division), Mrs. L. C. Pierce, superintendent.

Tulsa office, E. N. Ellis, superintendent. Muskogee office, S. A. Reed, superintendent. Enid office, J. O. Roach, superintendent.

State board of arbitration and conciliation— W. A. Pat Murphy, chairman.

James Hughes, secretary.

Address of department except where otherwise noted, Oklahoma City.

Industrial commission: Thomas H. Doyle, chairman.

Matt McElroy, commissioner. Fred H. Fannin, commissioner. Chester Napps, secretary.

Nancy Hood, statistician.

Address of commission: Oklahoma City.

United States Employment Service:

Mack Kelly, State director, Room 205, New Municipal Building, Muskogee.

W. A. Pat Murphy, Federal director, State Capitol, Oklahoma City.

Oregon

Bureau of labor:

C. H. Gram, commissioner of labor, Statehouse, Salem.

Chas. H. Elrey, deputy commissioner and attorney, Room 101, Courthouse, Portland.

State welfare commission:

Dorr E. Keasey, chairman.
Mrs. C. W. Hayhurst.
Harry M. Kenin.
C. H. Gram, executive secretary. Mary K. Brown, investigator.

Address of commission: Room 101, Courthouse, Portland.

State industrial accident commission:

Chas. T. Early, chairman. Arthur W. Lawrence.

Albert Hunter.

E. W. Rockey, M. D., chief medical examiner, Portland.

Address of commission, except where otherwise noted: Salem.

State board of conciliation:

William L. Brewster, chairman, Failing Building, Portland.
Charles N. Ryan, 704 Couch Building, Portland.
William E. Kimsey, 286 Main Street, Portland.
United States Employment Service:

E. J. Stack, State director, Room 101, Courthouse, Portland. C. H. Gram, Federal director, Room 101, Courthouse, Portland.

Pennsylvania

Department of labor and industry:
Dr. A. M. Northrup, secretary.
Charlotte E. Carr, deputy secretary.

Industrial board-

Dr. A. M. Northrup, chairman.
William B. Rodgers.
John A. Phillips.
George W. Fisher. Mrs. George B. Wood.

Mrs. George B. Wood.
J. S. Arnold, secretary.
State workmen's insurance board—

Dr. A. M. Northrup, chairman. Charles F. Armstrong, insurance commissioner. Edward Martin, State treasurer.

State workmen's insurance fund-W. J. Stiteler, jr., manager.

Workmen's compensation board— Arthur C. Dale, chairman.

William J. Burchinal.

Edward J. Hunter.

Dr. A. M. Northrup, ex officio.

Bond C. White, secretary.

Bureau, executive—Charlotte E. Carr, deputy secretary.

Bureau of workmen's compensation—J. C. Detweiler, director.

Bureau of employment—S. S. Riddle, director.

Bureau of employment—S. S. Riddle, director.

Bureau of industrial relations—Stephen Raushenbush, director.
Bureau of industrial standards—John Campbell, director.
Bureau of women and children—Beatrice McConnell, director.
Bureau of inspection—Harry D. Immel, director.
Bureau of rehabilitation—Mark M. Walter, director. Bureau of statistics—William J. Maguire, director.
Bureau of bedding and upholstery—M. P. Frederick, director.
Address of department: Harrisburg.

Department of mines:

Walter H. Glasgow, secretary.

Joseph J. Walsh, deputy secretary, anthracite division. Richard Maize, acting deputy secretary, bituminous division.
Address of department: Capitol Building, Harrisburg.

United States Employment Service:

Lewis G. Hines, State director, Room 1005, Gimbel Building, Philadelphia.

S. S. Riddle, Federal director, 410 South Office Building, Capitol Building, Harrisburg.

Philippine Islands

Bureau of labor (under department of commerce and communications):

Hermenegildo Cruz, director.

Modesto Joaquin, assistant director.

Administrative division—Rosendo Regalado, acting chief clerk.

Office of the attorney of labor—Bernabe Butalid, attorney. Conciliation and arbitration division—Mrs. Nieves Baens del Rosario, chief. Division of inspection and statistics—Andres E. Rivero, acting chief.

Interisland migration division—Gabriel Alba, commissioner.
Marine and employment division—Albino C. Dimayuga, chief.

Accounting division—Julian Yap, accountant.

Address of bureau: Manila.

Puerto Rico

Department of labor:

Prudencio Rivera Martinez, commissioner. William D. Lopez, assistant commissioner.

Luis Villaronga, chairman, mediation and conciliation commission.

Address of department: San Juan.

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Industrial commission-

Juan M. Herrero, chairman. M. Leon Parra, commissioner. F. Paz Granela, commissioner. Joaquin A. Becerril, secretary.
Address of commission: San Juan.

Rhode Island

Department of labor: Daniel F. McLaughlin, commissioner, Providence. Office of factory inspectors: J. Ellery Hudson, chief inspector, Providence. Board of labor (for the adjustment of labor disputes):

Daniel F. McLaughlin, commissioner of labor, chairman.
Edwin O. Chase (representing employers).
William C. Fisher (representing employers).
Albert E. Hohler (representing employees).
Roderick A. McGarry (representing employees).
Christopher M. Dunn, deputy commissioner of labor, secretary.

Address of board: Providence.

United States Employment Service:

Roderick A. McGarry, State director, Room 506, Federal Building. Providence.

Daniel F. McLaughlin, Federal director, Room 318, State Capitol, Providence.

South Carolina

Department of agriculture, commerce, and industries: J. W. Shealy, commissioner. Labor Division—A. H. Gilbert, jr., chief inspector.
Address of department: 118 State Office Building, Columbia.

Board of conciliation and arbitration:

James C. Self, chairman, Greenwood. H. E. Thompson, secretary, Batesburg. W. H. McNairy, Dillon.

United States Employment Service: R. D. McMillan, State director, Florence Trust Building, Florence.

South Dakota

Office of industrial commissioner: D. R. Perkins, industrial commissioner, Pierre. United States Employment Service: Charles S. Weller, State director, Room 3, Federal Building, Mitchell.

Tennessee

Department of labor:

Charles H. Love, commissioner and State fire marshal.

Mrs. M. Russell Gray, secretary and chief clerk.

Division of factory inspection—M. F. Nicholson, chief inspector.

Division of mines—A. W. Evans, chief inspector.

Division of hotel inspection—Sam I. Bolton, chief inspector.
Division of workmen's compensation—W. M. Hannah, superintendent.
Address of department: Nashville.
United States Employment Service: Major Robert Nelson Campbell, State director, 215 Post Office Building, Knoxville.

Texas

Bureau of labor statistics:

Robert B. Gragg, commissioner. Mrs. Lilyan Davis Smith, secretary. Marie Nash, assistant secretary. H. C. Colley, chief deputy.

Address of bureau: Austin.

Industrial accident board:

Mrs. Espa Stanford, member.
H. T. Kimbro, member.
Address of board: Austin. Earle P. Adams, chairman.

United States Employment Service: Cony Warren Woodman, State director, 247 West Thirteenth Street, Fort Worth.

Utah

Industrial commission:

William M. Knerr, chairman.
O. F. McShane.
B. D. Nebeker

O. F. McShane. B. D. Nebeker.

B. D. Nebeker.
Carolyn I. Smith, secretary.
State insurance fund—Charles A. Caine, manager.
Coal mine inspector—John Taylor.
Address of commission: Salt Lake City.
United States Employment Service: A. C. Wilson, State director, 214 Boston
Building, Salt Lake City Building, Salt Lake City.

Vermont

Office of commissioner of industries:

Clarence R. White, commissioner, Montpelier. Charles A. Root, factory inspector, Burlington.

United States Employment Service:

L. L. Lane, State director, Federal Building, Rutland.

Clarence R. White, Federal director, State Capitol, Montpelier.

Virginia

Department of labor and industry:

John Hopkins Hall, jr., commissioner. H. W. Furlow, assistant commissioner.

Virginia J. Reynolds, secretary.

Division of mines—A. G. Lucas, chief.

Division of factory inspection—S. A. Minter, chief.

Division of women and children—Carrie B. Farmer, director. Division of research and statistics—R. H. Barker, director.

Address of department: Richmond.

Department of workmen's compensation, industrial commission:

Parke P. Deans, chairman.

Parke P. Deans, chairman.
C. G. Kizer.
W. H. Nickels, jr.
W. F. Bursey, secretary.
Wade M. Miles, deputy commissioner, Bristol.
F. P. Evans, statistician.
W. L. Robinson, examiner. Address of commission except where otherwise noted: State Office Building, Richmond.

United States Employment Service: Walter W. Bryant, State director, Room 5, New Federal Building, Roanoke.

Department of labor and industries:

Claire Bowman, director.

H. D. Hailey, secretary.

Division of industrial insurance-John Shaughnessy, supervisor of industrial insurance and medical aid. L. L. Goodnow, M. D., chief medical adviser. John A. Steen, claim agent.

Division of safety-

L. M. Rickerd, supervisor of safety.
W. W. Wilson, mine inspector.
George T. Wake, deputy mine inspector.

Department of labor and industries—Continued.

Division of industrial relations-

L. M. Rickerd, supervisor of industrial relations.

William J. Coates, assistant supervisor of industrial relations. R. M. Van Dorn, industrial statistician.

Mrs. G. V. Haney, supervisor of women in industry.

Industrial welfare committee-

Claire Bowman, director of labor and industries, chairman.

John Shaughnessy, supervisor of industrial insurance. L. M. Rickerd, supervisor of industrial relations.

R. M. Van Dorn, industrial statistician.
Mrs. G. V. Haney, supervisor of women in industry, executive secretary.

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Address of department: Olympia.
United States Employment Service: W. C. Carpenter, State director, Room 421, Federal Building, Spokane.

West Virginia

Bureau of labor: Howard S. Jarrett, commissioner, Charleston.

Workmen's compensation department:

Lee Ott, commissioner.
John T. Moore, assistant to commissioner.

C. D. Smith, secretary. J. E. Brown, attorney.
J. W. Smiley, actuary.
Lewis J. Frey, statistician.
Russel Kessel, M. D., chief medical examiner.

Address of department: Charleston.

Department of mines: R. M. Lambie, chief, Charleston.

United States Employment Service:

Arthur D. Lilly, State director, Public Library Building, Charleston. Howard S. Jarrett, Federal director, Public Library Building, Charleston.

Wisconsin

Industrial commission:

Fred M. Wilcox, chairman. R. G. Knutson, commissioner. Voyta Wrabetz, commissioner.

A. J. Altmeyer, secretary.

Safety and sanitation department—R. McA. Keown, engineer.

Workmen's compensation department—F. T. McCormick, H. A. Nelson,
A. T. Flint, I. M. Kittleson, H. F. Ohm, examiners.

Apprenticeship department—Walter F. Simon, supervisor.

Woman and child labor department-

Taylor Frye, director.
Miss Maud Swett, field director, Milwaukee. Statistical department—Orrin A. Fried, statistician.

Address of commission: Madison.

Board of conciliation:

Chris Hochgreve, Green Bay.
Jacob P. Beuscher, Milwaukee.
Homer Witzig, Superior.

United States Employment Service:
Roy Empey, State director, Room 331, Federal Building, Milwaukee.
R. G. Knutson, Federal director, State Capitol, Madison.
Harry Lippart, assistant Federal director, 511-A West Wells Street,
Milwaukee.

Wyoming

Department of labor and statistics:

W. E. Jones, commissioner.

L. T. Cox, deputy commissioner.

Address of department: Cheyenne. Child labor board:

W. E. Jones, secretary.

B. H. McIntosh.

W. H. Hassed, M. D.

Address of board: Cheyenne.

Coal-mine inspection department:

Lyman Fern, chief, Rock Springs.

David K. Wilson, deputy, Rock Springs.

R. E. Gildroy, deputy, Sheridan.

Workmen's compensation department (under State treasurer's office):

H. R. Weston, State treasurer.
C. B. Morgan, deputy treasurer.
Arthur Calverley, assistant deputy and department manager.
Address of department: Capitol Building, Chevenne.
United States Employment Service: Joseph F. Minnick, State director, 405 Conroy Building, Casper.

Foreign Countries

Canada

Department of Labor:

Hon. W. A. Gordon, minister. H. H. Ward, deputy minister.

Gerald H. Brown, assistant deputy minister.
M. S. Campbell, chief conciliation officer.
R. A. Rigg, director of employment service.
E. G. Blackader, superintendent of P.

E. G. Blackadar, superintendent of Dominion Government annuities.

E. G. Blackadar, superintendent of Dominion Government and F. A. McGregor, registrar of combines investigation act.
C. W. Bolton, chief of statistical branch.
F. J. Plant, chief of labor intelligence branch.
H. Hereford, Dominion director of unemployment relief.
Address of department: Ottawa, Ontario.

Alberta

Bureau of labor:

eau of labor:
W. Smitten, commissioner of labor.
F. W. Hobson, chief boiler inspector.
H. M. Bishop, chief factory inspector.
G. P. Barber, chief theater inspector.
A. A. Millar, chief mine inspector.
Employment service—William Carnill, director.
Minimum wage board—
A. A. Carpenter, chairman

A. A. Carpenter, chairman.
W. Smitten, commissioner of labor, secretary.
Address of bureau: Administration Building, Edmonton.

Government employment bureau:

Address of pureau:
Milliam Carnill, director, Edmonton.

L. J. Ricks, superintendent, Calgary.

W. G. Paterson, superintendent, Edmonton.

A. R. Redshaw, superintendent, Lethbridge.

J. W. Wright, superintendent, Medicine Hat.

A. A. Colquohoun, superintendent, Drumheller.

A. A. compensation board:

Workmen's compensation board:

Alex Ross, chairman.
Walter F. McNeill, commissioner.
James A. Kinney, commissioner.

Frederick D. Noble, secretary.

Address of board: Administration Building, Edmonton.

British Columbia

Department of labor:
Hon. W. A. McKenzie, minister.
Adam Bell, deputy minister.

H. Douglas, chief factories inspector, Vancouver.

Employment service—J. H. McVety, general superintendent, Vancouver.

Minimum wage (for females) board—

Adam Bell, deputy minister of labor, chairman.

Mrs. Helen G. MacGill.

Thomas Mathews.

Miss Mabel Agnes Cameron, secretary. Hours of work and minimum wage (for males) board—Adam Bell, deputy minister of labor, chairman.

Address of department except where otherwise noted: Parliament Building, Victoria.

Workmen's compensation board:

E. S. H. Winn, K. C., chairman.
Parker Williams, commissioner.
Hugh B. Gilmour, commissioner.

F. P. Archibald, secretary.R. B. Fulton, assistant secretary.

Old-age pensions department—H. L. Greenwood, secretary.
Boilers and machinery inspection department—A. S. Bennett, chief inspector.
Electrical energy inspection department—H. L. Taylor, chief inspector.
Address of board: 411 Dunsmuir Street, Vancouver.

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Manitoba

Bureau of labor:

W. R. Clubb, minister of public works. Edward McGrath, secretary.

Arthur MacNamara, assistant deputy minister of public works. Fair wage board—
Arthur MacNamara.
J. W. Morley.
E. Claydon.
Thomas J. Williams.
C. J. Harding.
Minimum wage board—
George N. Jackson, chairman.
Mrs. Edna M. Nash.
James Winning.

James Winning. E. R. Kennedy.

Address of bureau: Winnipeg.

Workmen's compensation board:
C. K. Newcombe, commissioner.
George E. Carpenter, director.
L. McBride, director.

J. L. McBride, director.

A. J. Fraser, M. D., chief medical officer.

Nicholas Fletcher, secretary.

P. V. E. Jones, assistant secretary.

Address of board: Winnipeg.

New Brunswick

Department of Labor: H. I. Taylor, minister, St. George.

Workmen's compensation board:

John A. Sinclair, chairman.
Frank C. Robinson, vice chairman.
R. B. Irving, acting commissioner.
Department of factory inspection—John Kenney, inspector.
Address of board: St. Johns.

Nova Scotia

Department of public works and mines:

Colonel, the Hon. Gordon S. Harrington, premier and minister.

Norman McKenzie, deputy minister. Address of department: Halifax.

Address of department: Halifax.

Workmen's compensation board:

F. L. Milner, K. C., chairman.

Fred W. Armstrong, vice chairman.

John T. Joy, commissioner.

Dr. M. D. Morrison, medical officer.

John McKeagan, assessment officer.

N. M. Morison, claims officer.

N. M. Morison, claims officer.

Miss M. M. Skerry, secretary.

Address of board: Halifax.

Emp.oyment service:

C. J. Cotter, superintendent men's division, Halifax. Miss Elda E. Caldwell, superintendent women's division, Halifax.

Ontario

Department of labor:

ent of labor:
Hon. J. D. Monteith, minister.
A. W. Crawford, deputy, minister.

A. W. Crawford, deputy minister.
D. M. Medcalf, chief inspector of steam boilers.
James T. Burke, chief inspector of factories.
J. M. Brown, chairman, board of examiners of operating engineers.

H. C. Hudson, general superintendent, Ontario government employment offices.

A. W. Crawford, chief inspector of apprenticeship.

Address of department: East Block, Parliament Buildings, Toronto.

Minimum wage board:

R. A. Stapells, chairman.

H. G. Fester.

Miss Margaret Stephen.

Address of board: East Block, Parliament Buildings, Toronto.

Workmen's compensation board:

Victor A. Sinclair, K. C., chairman.

Victor A. Sinciair, K. C., chairman.

Henry J. Halford, vice chairman.

George A. Kingston, commissioner.

N. B. Wormith, secretary.

T. Norman Dean, statistician.

F. W. Graham, claims officer.

D. E. Bell, chief medical officer.

I. M. Bromper, medical officer. J. M. Bremner, medical officer.
J. F. Hazelwood, medical officer.

Address of board: Metropolitan Building, Toronto.

Quebec

Department of labor:

Hon. C. J. Arcand, minister, Montreal. Gerard Tremblay, deputy minister, Parliament Buildings, Quebec.

Alfred Robert, chief inspector of industrial establishments and public buildings, 97 Notre-Dame Street east, Montreal.

Clovis Bernier, deputy chief inspector, 97 Notre-Dame Street east,

J. N. Mochon, chief examiner of the board of electrical examiners, 88 St. James Street east, Montreal.

N. S. Walsh, chief examiner of the board of stationary engineers, 88 St. James Street east, Montreal.

Maxine Morin, K. C., registrar of the board of conciliation and arbitration, Parliament Buildings, Quebec.

Joseph Ainey, general superintendent of provincial employment bureau, 97 Notre-Dame Street east, Montreal.

Achille Latreille, fair wages officer, 97 Notre-Dame Street east, Montreal.

Pierre A. Gosselin, fair wages officer, 231 St. Paul Street, Quebec.

Women's minimum wage commission-

Gustave Francq, chairman, 89 Notre-Dame Street east, Montreal.
Alfred Crowe, secretary, 229 St. Paul Street, Quebec.
Workmen's compensation commission:
Robert Taschereau, K. C., chairman.
Simon Lapointe, K. C.
O. E. Sharpe.

O. G. Molleur, secretary.

Address of commission: 73 Grande Allee, Quebec.

Saskatchewan

Department of railways, labor, and industries:

Hon. J. A. Merkley, minister.

Thomas M. Molloy, deputy minister.

D. McDonald, chief boiler inspector.

W. H. Hastings, mines inspector.

Gerald E. Tomsett, general superinter description.

Gerald E. Tomsett, general superintendent of employment service. Address of department: Farmers' Building, Regina.

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Minimum wage board:

A. J. Wickens, K. C., chairman, Moose Jaw.

Mrs. Ethel Henderson, Moose Jaw. Mrs. Grace Chandler, Regina.

Ralph Heseltine, Regina. Stanley Edwards, Saskatoon.

Thomas M. Molloy, secretary, Regina.

Workmen's compensation board:

N. R. Craig, K. C., chairman. Robert S. Banbury, commissioner.

Alfred Higgin, commissioner. Address of board: 7 Farmers' Building, Regina.

Other Foreign Countries

Albania

Ministry of Public Works.

Address: Tirana.

Ministerio del Interior (Ministry of the Interior).

Departamento Nacional del Trabajo (National Labor Department). Address of ministry: Buenos Aires.

Australia.

Commonwealth Bureau of Census and Statistics.

Address: Melbourne.

Austria.

Bundesministerium für soziale Verwaltung (Federal Ministry of Social Administration).

Address: 1 Hanuschgasse 3, Vienna.

Ministère de l'Industrie, du Travail et de la Prévoyance sociale (Ministry of Industry, Labor and Social Welfare). Address: 12 Rue Lambermont, Brussels.

Rolivia.

Departamento Nacional del Trabajo (National Labor Office). Address: La Paz.

Brazil. Ministerio da Agricultura, Industria et Comercio (Ministry of Agriculture, Industry, and Commerce). Address: Rio de Janeiro.

Bulgaria

Ministerstwo na Tyrgowiata, Promyshlenosta i Trouda (Ministry of Commerce, Industry, and Labor). Address: Rue Alaninska, 48, Sofia.

Chile.

Ministerio de Bienestar Social (Ministry of Social Welfare). Address: Santiago.

China Ministry of Industry, Commerce, and Labor. Department of Labor.1

Address of ministry: Nanking.

Colombia.

Ministerio de Industrias (Ministry of Industries).
Oficina General del Trabajo (General Labor Office). Address of ministry: Bogota.

Costa Rica.

Secretaría de Fomento (Ministry of Public Works). Address: San Jose.

Cuba.

Secretaría de Agricultura, Comercio y Trabajo (Secretariat of Agriculture, Commerce, and Labor). Address: Habana.

Czechoslovakia. Ministerstvo socialni péče (Ministry of Social Welfare).²
Address: Valdstynska, 10, Prague, III.

Ministerstvo veřejných prací (Ministry of Public Works). Address: Presslova, 6, Prague-Smichov.

¹ Three sections dealing with labor organizations, labor legislation, and social welfare, respectively.

³ Handles labor relations at large.
3 Labor questions relating to workers in mines; insurance statistics.

Denmark.

Socialministeriet (Social Ministry).

Arbejderforsikrings-raadet (Workmen's Compensation Board).

Address: 3 Kongens Nytorv, Copenhagen.

Arbejdsraadet (Labor Board).
Address: 25 Amaliegade, Copenhagen.

Direktoratet for arbeids- og fabriktilsynet (Labor and Factory Inspection Department).

Address: 25 Amaliegade, Copenhagen.

Dominican Republic.

Departamento de Trabajo (Department of Labor).

Address: San Domingo.

Dutch East Indies.

Department of Justice.

Kantoor van arbeid (Labor Bureau). Address of department: Batavia, Java.

Ministerio de Previsión Social y Trabajo (Ministry of Public Welfare and Labor).

Address: Quito.

Egypt.

Ministry of Interior, Council of Arbitration.

Department of Labor.

Address of ministry: Cairo.

Estonia.

Töö-ja Hoolekande-Ministeerium (Ministry of Education and Social Welfare).

Address: Tallinn.

Finland.

Sosialiministeriö (Ministry of Social Affairs).

Address: Helsingfors.

Ministère du Travail et de l'Hygiène (Ministry of Labor and Hygiene). Address: Rue de Grenelle, 127, Paris.

Reichsarbeitsministerium (Ministry of Labor).

Address: Scharnhorststrasse, 35, Berlin NW., 40.

Ministry of Labour.

Address: Montague House, Whitehall, London, SW., 1.

Greece

Ministère de l'Économie nationale (Ministry of National Economy). Direction du Travail et de la Prévoyance sociale (Directorate of Labor and Social Welfare).

Address of ministry: Rue Valaoritou, 3, Athens.

Guatemala.

Ministerio de Fomento (Ministry of Public Works).5 Ministerio de Agricultura (Ministry of Agriculture).6 Address of both: Guatemala.

Haiti.

Department of Labor.

Address: Port au Prince.

Honduras.

Ministerio de Fomento, Obras Públicas y Agricultura (Ministry of Public Works and Agriculture).

Address: Tegucigalpa.

Hungary.

Magyar Kir. Népjoléti és Munkaügyi Minisztérium (Ministry of Social Welfare and Labor).

Address: Kyralyi Palota, Budapest. Statisztikai hivatal (Government Statistical Office). Address: II Keleti Karoly utca 5, Budapest.

India.

Department of Industries.

Address: Delhi.

Labor Office of the Government of Bombay. Address: Bombay.

⁴ Handles all matters pertaining to labor.
5 Handles questions relating to urban labor matters.
6 Handles questions relating to rural labor matters.

Irish Free State.

Department of Industry and Commerce. Address: Government Building, Dublin.

Ministero delle Corporazioni (Ministry of Corporations). Address: Rome.

Japan.

Shakai Kyoku (Bureau of Social Affairs). Address: Tokyo.

Ministry of Public Welfare.

Address: Riga.

Lithuania.

Vidaus Reikalų Ministerija (Ministry of Home Affairs). Address: Kaunas.

Luxemburg.

General Directorate of Agriculture, Industry, and Social Welfare. Division of commerce, industry, and labor. Address of directorate: Luxemburg City.

Mexico.

Departamento de Industria, Comercio y Trabajo (Department of Industry, Commerce, and Labor)

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Address: Avenida Republica Argentina, N. 12, Mexico City.

Netherlands.

Ministerie van Arbeid, Handel, en Nijverheid (Ministry of Labor, Commerce, and Industry).

Address: Beznidenhout, The Hague.

New Zealand.

Department of Labour. Address: Wellington.

Nicaragua.
Ministerio de Fomento (Ministry of Public Works).

Address: Managua.

Norway.

Departmentet for Social Saker (Ministry of Social Affairs). Address: Viktoria terrasse, 11-13, Oslo.

Panama

Ministerio de Agricultura y Obras Públicas (Ministry of Agriculture and Public Works).

Address: Panama.

Paraguay

Ministerio del Interior (Ministry of the Interior).

Address: Asuncion.

Persia

Ministry of Commerce, Agriculture, and Public Works. Address: Teheran.

Peru.

Ministerio de Fomento (Ministry of Public Works).

Address: Lima.

Poland. Ministerstivo Pracy i Opieki Spolecznej (Ministry of Labor and Social Welfare)

Address: Place Dombrowski, 1, Warsaw.

Portugal.
Ministerio do Comércio e Comunicações (Ministry of Commerce and Communications).

Address: Lisbon.

Ministerul Muncii, Sanatatii si Ocrotirilor Sociale (Ministry of Labor, Health, and Social Welfare). Address: Bucharest.

Salvador.

Ministerio de Fomento, Agricultura, Gobernacion y Trabajo (Ministry of Public Works, Agriculture, and Labor). Address: San Salvador.

Siam.

Ministry of Commerce and Communications. Board of Commercial Development.⁷ Address of ministry: Bangkok.

Spain

Departamento de Trabajo (Ministry of Labor). Address: Madrid.

⁷ Deals with labor matters.

Socialdepartementet (Ministry of Social Affairs).
Socialstyrelsen (Social Board).

Address of ministry: Mynttorget 2, Stockholm.

Switzerland.

Volkswirtschaftsdepartement (Federal Department of National Economy). Arbeitsamt (Federal Labor Office).

Address of department: Palais Fédéral, Berne.

Ministry of Economy.

Address: Ankara (Angora).
Union of South Africa.
Department of Labour. Address: Pretoria.

Ministerio de Industrias (Ministry of Industries).

Oficina Nacional de Trabajo (National Labor Office).

Montevideo Address of ministry: Montevideo.

Venezuela.

e,

Ministerio de Fomento (Ministry of Public Works).

Address: Caracas.

Yugoslavia.

Ministarstvo Socijalne Politike (Ministry of Social Policy). Address: Belgrade.

PUBLICATIONS RELATING TO LABOR

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Official-United States

Illinois.—Department of Labor. Thirteenth annual report, July 1, 1929, to June 30, 1930. Springfield, 1931. 209 pp., charts.

The report includes information on the activities of the division of free employment offices, the division of factory inspection, and the industrial commission, and gives statistics on employment, building, industrial accidents, and workmen's compensation. The data relating to workmen's compensation are reviewed in this issue of the Labor Review.

- MISSOURI.—Bureau of Mines. Department of Inspection. Forty-fourth annual report, year ending December 31, 1931. Jefferson City, [1932]. 95 pp. Includes data relating to accidents, production, and wages.
- NEW YORK.—Board of Housing. Report. Albany, 1932. 80 pp., charts. (Legislative document (1932), No. 84.)

Information on tax exemption and low-cost housing in New York City, taken from the report, is given in this issue of the Labor Review.

- Joint Legislative Committee on Unemployment. Preliminary report, transmitted to the Legislature February 15, 1932. Albany, 1932. 197 pp., charts. (Legislative document (1932) No. 69.)

 Reviewed in this issue.
- NORTH CAROLINA.—Industrial Commission. Papers presented at the second annual state-wide industrial safety conference, Charlotte, November 5 and 6, 1931. Charlotte, [1932?]. 113 pp.
- WHITE HOUSE CONFERENCE ON CHILD HEALTH AND PROTECTION.—Committee on Milk Production and Control. Milk production and control: Communicable diseases, public health supervision, nutritional aspects, economic aspects. New York, Century Co., 1932. 392 pp.
- --- Committee on National, State, and Local Organization for the Handicapped. Organization for the care of handicapped children. New York, Century Co., 1932. 365 pp.
- --- Committee on Socially Handicapped. The delinquent child. New York, Century Co., 1932. 499 pp.

Outlines a series of minimum needs which the committee feels are essential for the child's happiness and for his living a wholesome life.

WYOMING.—Workmen's Compensation Department. Sixteenth report, for the 12 months ending December 31, 1931; sixth report, Coal Mine Catastrophe Insurance Premium Fund; ninth report, Wyoming Peace Officers' Indemnity Fund. Cheyenne, [1932]. 164 pp.

The data given on workmen's compensation are reviewed in this issue of the Labor Review.

UNITED STATES.—Congress. House of Representatives. Report No. 898 (72d Cong., 1st sess.), to accompany H. R. 4743: Vocational rehabilitation. Report of Mr. Douglass, of Massachusetts, from Committee on Education. Washington, 1932. 5 pp.

- UNITED STATES.—Congress. Committee on Education. Vocational rehabilitation. Hearing (72d Cong., 1st sess.), January 21-23, 1932, on H. R. 4743, a bill to amend an act entitled, "an act to provide for the promotion of vocational rehabilitation of persons disabled in industry or otherwise and their return to civil employment," approved June 2, 1920, as amended. Washington, 1932. 124 pp.
- Senate. Committee on Mines and Mining. Hearings (72d Cong., 1st sess.) on S. 2935, a bill to regulate interstate and foreign commerce in bituminous coal; provide for consolidations, mergers, and cooperative marketing; require the licensing of corporations producing and shipping coal in interstate commerce; and to create a bituminous coal commission; and for other purposes, March and April, 1932. Part 1. Washington, 1932. 342 pp.
- Department of Labor. Bureau of Labor Statistics. Bulletin No. 553: Fluctuation in employment in Ohio, 1914 to 1929. Washington, 1932. 585 pp. Summary figures on employment in Ohio during the year 1930 were published in the Labor Review for March, 1932 (pp. 516-528).
- Government Printing Office. Children's Bureau and other publications relating to children. List of publications relating to above subjects for sale by Superintendent of Documents. Washington, 1932. 14 pp. (Price list 71, fourteenth edition.)

Official-Foreign Countries

- Australia.—Bureau of Census and Statistics. Wages and prices: A short examination of the accuracy of the retail price index number used in the adjustment of wages (second edition, revised). Canberra, December, 1931. 20 pp.
- Austria.—Bundesamt für Statistik. Statistisches Handbuch für die Republik Österreich. Vienna, 1931. 223 pp.

Includes statistics of trade agreements, wages, unemployment, unemployment insurance and relief, industrial disputes, labor unions, accidents, invalidity and old-age insurance, cooperative societies, etc.

Denmark.—Arbejdsløshedslovgivningen i Danmark, gennem 25 aar 1907-1932. Copenhagen, 1932. 208 pp., illus.

A historical review of the legislation on matters connected with unemployment in Denmark during 1907 to 1932. Statistical data are included showing the number of unemployment insurance funds and their membership, number of beneficiaries, income and expenditures, etc.

— [Socialministeriet.] Beretning om arbejds- og fabriktilsynets virksomhed i aarene 1929–1931. Copenhagen, 1932. 30 pp. (Reprint from Socialt Tidsskrift, May, 1932.)

Report on factory inspection in Denmark during 1929-1931.

— Statistiske Departement. Arbejdsløsheden i aarene 1925-1930. Copenhagen, 1932. 127 pp., chart. (Statistiske Meddelelser, 4 række, 88 bind, 4 hæfte.) Contains statistical information in regard to unemployment in Denmark during the years 1925 to 1930.

Great Britain.—Department of Overseas Trade. Economic conditions in Belgium in 1931, together with an annex on the Grand Duchy of Luxemburg, by N. S. Reyntiens. London, 1932. 138 pp.

The bulletin contains a chapter on social questions, covering family allowances, housing, strikes, unemployment, cooperative societies, and cost and standards of living. Some data on wages are given in connection with the discussion of different industries.

GREAT BRITAIN.—Mines Department. Miners' Welfare Fund: Tenth report of the committee appointed by the board of trade to allocate the fund, together with the fifth report of the selection committee appointed to administer the miners' welfare national scholarship scheme, 1931. London, 1932. 116 pp., illus.

welfare national scholarship scheme, 1931. London, 1932. 116 pp., illus.

— Ministry of Labor. Unemployment Grants Committee. Report for the period September 1, 1930, to December 31, 1931. London, 1932. 11 pp. (Cmd. 4029.)

Hamburg (Germany).—Statistisches Landesamt und Landeswahlamt. Statistische Mitteilungen über den hamburgischen Staat, Nr. 26: Die Lebenshaltung der wirtschaftlich schwachen Bevölkerung in Hamburg in den Jahren 1925 bis 1929, insbesondere im Jahre 1927. Hamburg, 1931. 64 pp.

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This study of cost of living of working-class families in Hamburg, Germany,

was summarized in the Labor Review for July, 1932 (p. 235).

- International Labor Office.—Abolition of fee-charging employment agencies. (First item on agenda of International Labor Conference, 17th session, Geneva, 1933, Questionnaire I.) Geneva, 1932. 28 pp. (World Peace Foundation, Boston, Mass., American agent.)
- —— Invalidity, old-age, and widows' and orphans' insurance. (Second item on agenda of International Labor Conference, 17th session, Geneva, 1933, Questionnaire II.) Geneva, 1932. 81 pp. (World Peace Foundation, Boston, Mass., American agent.)
- —— Studies and Reports, Series A, No. 35: Studies on industrial relations, II. Geneva, 1932. 162 pp. (World Peace Foundation, Boston, Mass., American agent.)

This report covers the personnel activities and working conditions in the Zeiss Optical Works in Germany; the F. I. A. T. motor-car works and subsidiary plants in Italy; the Philips Works, manufacturing electrical apparatus, in the Netherlands; and the Sandvik Steel Works in Sweden.

ITALY.—Associazione Nazionale per la Prevenzione degli Infortuni sul Lavoro. Statistica degli infortuni in agricoltura sotto l'aspetto delle casuali, 1929. Milan, 1932. 138 pp., maps, chart.

Report on accidents in agriculture and their causes, during the year 1929.

--- Cassa Nazionale per le Assicurazioni Sociali. Per la salute degli operai (un biennio di attivita nel campo assistenziale), per Giovanni Indri. [Rome, 1927?] 282 pp.

An account of what was done by the Italian National Institute for Social Insurance during 1926 and 1927 at health stations, sanitariums, and hot baths to improve the health of the working class.

Manitoba (Canada).—Workmen's Compensation Board. Report for 1931. Winnipeg, 1932. 32 pp.

Reviewed in this issue.

Norway.—Hovedstyret for Statsbanene. Norges jernbaner: Beretning for året 1 Juli 1930-30 Juni 1931. Oslo, 1932. 248 pp., charts, map.

Annual report on the State railways in Norway for the fiscal year ending June 30, 1931, including personnel, pension funds, accidents, etc.

--- Rikstrygdeverket. Sjømannstrygden, 1929. Oslo, 1932. 34 and 17 pp. (Norges Offisielle Statistikk VIII, 183.)

Annual report on the operation of the system of insurance against accidents in sea fisheries in Norway during 1929, including statistics of accidents from 1913 to 1929, number of beneficiaries, and financial transactions of the system.

Oslo (Norway).—Arbeidskontor. Arsberetning, 1930. Oslo, 1932. 28 pp., charts.

Annual report of the Oslo public employment service for the year 1930.

PRUSSIA (GERMANY).—Statistisches Landesamt. Statistisches Jahrbuch für den Freistaat Preussen. Berlin, 1931. 471 pp.

This statistical yearbook for Prussia includes data on wages and earnings, employment and unemployment, and unemployment insurance and relief.

VIENNA (AUSTRIA).—Kammer für Arbeiter und Angestellte. Wie leben die Wiener Heimarbeiter? von Kathe Leichter. Vienna, 1928. 146 pp.

A report on home work in Vienna, including information on the home workers and their employers, hours of labor, earnings, unemployment, health conditions, etc.

WARSAW (POLAND) .- Magistrat. Rocznik statystyczny Warszawy, 1929. War-

saw, 1931. [Various paging.]

Includes statistics on housing, cost of living, wages, employment service, industrial disputes, social insurance, charity, etc., in the city of Warsaw, Poland, in 1929.

Western Australia.—Government Statistician. Pocket yearbook of Western Australia, 1932. Perth, 1932. 117 pp.

Includes data ralating to building and cooperative and provident societies, employment, immigration and emigration, old-age and invalidity pensions, retail prices, trade-unions, and wages.

Unofficial

AMERICAN ACADEMY OF POLITICAL AND SOCIAL SCIENCE. The Annals, vol. 161:
Modern insurance developments. Philadelphia, May, 1932. 284 pp.

The material presented in this volume is classified under the following main heads: Life insurance; property and casualty insurance; educational trends, and insurance tendencies in foreign countries. The articles of special labor interest include: Industrial pensions, Group insurance, Workmen's compensation insurance, Unemployment compensation in the United States, and Accident and health insurance. The developments in the field of group insurance, as described in the article mentioned, were reviewed in the Labor Review for July, 1932 (p. 53).

California, University of. Heller Committee for Research in Social Economics. Cost of living studies: Budget for dependent families or children. For use by social welfare agencies. Berkeley, 1932. 36 pp. (Mimeographed.) The suggested budget was given in the Labor Review for July, 1932 (p. 234.)

Committee on the Costs of Medical Care. Publication No. 14: The costs of medicines; the manufacture and distribution of drugs and medicines in the United States and the services of pharmacy in medical care, by C. Rufus Rorem and Robert P. Fischelis. Chicago, University of Chicago Press, 1932. 250 pp.

— Publication No. 16: The healing cults. A study of sectarian medical practice—its extent, causes, and control, by Louis S. Reed. Chicago, University of Chicago Press, 1932. 134 pp.

DIX, LESTER. The economic basis for the teacher's wage. New York, Lincoln School of Teachers College, Columbia University, 1931. 114 pp., charts.

Hoffman, Frederick L. Life and death in the medical profession. Newark, Prudential Press, 1932. 28 pp.

The economic status of physicians and the physical demands of their profession are discussed in relation to their effects upon mortality rates. The reporting upon causes of death among physicians is very unsatisfactory at the present time, but the available statistics are discussed and the ways in which methods of reporting could be improved are pointed out.

Illinois, University of. Agricultural Experiment Station. Bulletin 372:
Living expenditures of a selected group of Illinois farm and small-town families (1929-30), by Ruth Crawford Freeman and M. Attie Souder. Urbana, Ill., 1931. 211 pp., map, chart.

Reviewed in this issue.

International Association of Fire Fighters. Progress. Washington, 1932. 30 pp.

Report on salaries prevailing in January, 1931, and on working conditions, vacations, and civil service regulations in 1931, in fire departments of various cities in the United States and Canada. Pension systems for firemen are shown for specified cities in the United States.

Kiehel, Constance A. Unemployment insurance in Belgium: A national development of the Ghent and Liége systems. New York, Industrial Relations Counselors (Inc.), 1932. 509 pp., map, charts.

This is the fourth in a series of reports covering a world-wide study of unemployment insurance, the other countries covered being Great Britain, Switzerland,

and the United States. The volumes already published cover the four main systems of providing unemployment compensation, the present one treating of the partly voluntary and partly subsidized system in force in Belgium.

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Lupin, Friedrich F. v. Die indische Textilindustrie als Industrie eines kolonialen Rohstofflandes. Jena, 1931. 352 pp., maps, charts. (Probleme der Weltwirtschaft, Schriften des Instituts für Weltwirtschaft und Seeverkehr an der Universität Kiel, 49.)

Deals with the textile industry in India, including labor cost as compared with that in England

MAASS, HERMANN. Hundert Jahre Kampf um Jugendschutz. Berlin, Reichsausschuss der deutschen Jugendverbande, 1931. 98 pp.

Deals with the history and the present conditions of the struggle for the protection of the youth in Germany, including legislation, child labor, schooling of children, factory inspection, wages and hours of labor, unemployment, etc.

McAuliffe, Eugene. The romance and tragedy of coal. Omaha, Cononial Press, 1931. 97 pp.

The author traces the history of the coal-mining industry and devotes chapters to rentals and royalties, underground slavery, wage and labor facts, accident-prevention machinery, and production and prices.

MAHR, ALEXANDER. Hauptprobleme der Arbeitslosigkeit. Leipzig and Vienna, Franz Deuticke, 1931. 93 pp. (Wiener Staats- u. Rechtswissenschaftliche Studien, Band XX.)

Deals with unemployment problems, including wages and their influence upon production, monopolistic industries and unemployment, rationalization and unemployment, decrease of seasonal unemployment, public works, shortening of labor time, decrease of wages as an unemployment-relief measure, and other plans which have been undertaken to combat unemployment in Germany.

Martin-Leake, M., and Smith, Thyra. The scientific selection and training of workers in industry and commerce. London and New York, Isaac Pitman & Sons (Ltd.), 1932. 104 pp., diagrams.

The main purpose of the authors, as set forth by them, is to help reduce one of the principal sources of waste in commerce and industry—the human misfit.

METROPOLITAN LIFE INSURANCE Co. Social Insurance Monograph 6: The limitations of unemployment insurance. New York, 1932. 26 pp.

The unemployment-insurance plans of Great Britain, Germany, Denmark, and Switzerland are analyzed from the standpoint of their necessary limitations.

MINNESOTA, UNIVERSITY OF. Employment Stabilization Research Institute. Proceedings of the Minnesota Conference on Unemployment Relief and Stabilization, November 17-19, 1931. Minneapolis, University of Minnesota Press, 1932. 95 pp.

The various papers presented at this conference are classified under five main heads: Administrative problems of unemployment relief; public employment exchanges; stabilization and unemployment reserves; individual plant management, its relation to the causes and problems of industrial readjustments; and individual plant management and industrial readjustments.

NATIONAL BUREAU OF ECONOMIC RESEARCH (INC.). Publication No. 18: International migrations, Volume II—Interpretations, by a group of scholars in different countries. Edited by Walter F. Willcox. New York, 51 Madison Avenue, 1931. 715 pp., charts.

NATIONAL CIVIC FEDERATION. Woman's Department. The woman power of the Nation. New York, 9 East 40th Street, [1932?]. In two parts. 24 and 39 pp.

NATIONAL EDUCATION ASSOCIATION. Research Division. Research Bulletin, Vol. IX, No. 3: Salaries in city school systems, 1930-31. Washington, 1201 Sixteenth Street, NW., 1931. 66 pp., charts.

Data from this study were given in the Labor Review for July, 1932 (p. 167).

NATIONAL INDUSTRIAL CONFERENCE BOARD (Inc.). Salary and wage policy in the depression. New York, 247 Park Avenue, 1932. 67 pp., charts.

Reviewed in this issue.

Wages in the United States in 1931. New York, 247 Park Avenue, 1932. 78 pp., charts.

NEW ENGLAND COUNCIL. Industrial Committee. What New England manufacturers are doing to improve earnings in 1932. Boston, Statler Building, 1932. 7 pp.

Data regarding the employment measures adopted by manufacturers reporting to the New England Council, taken from the report, are given in this issue of the Labor Review.

NORWAY YEAR BOOK, 1931. Oslo, Sverre Mortensen Forlag A/S, [1931]. 408 pp. Contains textual and statistical information for Norway for 1930 and 1931, including prices and wages, employment, trade-unions, arbitration of industrial disputes, etc.

SEYMOUR, JOHN B. The Whitley councils scheme. London, P. S. King & Son (Ltd.), 1932. 253 pp.

The Whitley councils, proposed in 1916 as a means for improving relations between employers and employees and for bringing the intelligence of both sides to bear upon the task of progressively bettering industrial conditions, met with much favor at the time, but have seemed unable to maintain their original position. The first was established in 1917, and within three years 73 national councils had been formed; the movement then slowed down, and by the end of 1929 only 10 more national councils had been formed. The present writer, in addition to tracing the development of the system, reviews the arguments for and against the councils, discusses what they accomplished, and deals with the difficulties they have encountered. It is unlikely, he considers, that the system will be extended much further in British industry, chiefly owing to the indifference of many of those concerned. He feels, however, that they have done good work in the past, and have valuable possibilities for the future, which ought to be worked out either through the councils or some other joint representation system. An appendix gives sample constitutions of joint industrial councils and works committees, and a bibliography.

SMITH, THURBER M. The unemployment problem—a Catholic solution from the viewpoints of ethics, history, and social science. New York, Bruce Publishing Co., 1932. 218 pp.

TAYLOR, PAUL S. Mexican labor in the United States: Chicago and the Calumet region. Berkeley, University of California Press, 1932. 260 pp., maps. (University of California Publications in Economics, vol. 7, No. 2).

Some statistics on Mexican labor in the localities covered in this report were published in the January, 1931, issue of the Review.

Timmons, B. F. Personnel practices among Ohio industries. Columbus, Ohio State University Press, 1931. 136 pp., charts. (Ohio State University, Bureau of Business Research Monographs, No. 18.)

The study covers the personnel practices of 189 Ohio industrial companies. It was found that the larger part of the activities covered by the study were carried out by the large establishments, that is, establishments employing 1,500 or more workers.

Verband der Buchbinder und Papierverarbeiter Deutcshlands. Geschäftsbericht 1931. Berlin, [1932?]. 215 pp.

Yearly report on the activities of the Union of Bookbinders and Paper Workers in Germany during 1931, including membership, administrative personnel, working hours, wages, employment, unemployment, insurance against unemployment and other kinds of social insurance, trade agreements, accidents, industrial disputes, and other labor conditions.